PB88-124292

# Analysis of Acid Precipitation Samples Collected by State Agencies Annual Report

Global Geochemistry Corp., Canoga Park, CA

Prepared for

Environmental Monitoring Systems Lab.
Research Triangle Park, NC.

Nov 87

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Th~~is~~e report summarizes the analytical results from 30 state operated wet acid deposition sites. All sites submitted their samples to the same laboratory so that comparisons of data could be made from different geographic areas. The use of a central laboratory also provided cost efficiencies and improved documentation of data quality. The report contains maps showing the location of each site, plots of analytical data during the time period, tables of all field and analytical data, a table comparing the concentration of each analyte at the different sites, a table of precipitation weighted data for each site, plots comparing field and laboratory pH and conductivity measurements, and quality control tables and plots giving information on overall data quality.

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| | | |

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November 1987

# ANNUAL REPORT, ANALYSIS OF ACID PRECIPITATION SAMPLES COLLECTED BY STATE AGENCIES

by

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EPA Contracts
68-02-4067 and 68-02-4454

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# 1.0 INTRODUCTION

This annual report, EPA contract 68-02-4067 ended in OCT '86 and EPA contract 68-02-4454 began in NOV '86, "Analysis of acid precipitation samples collected by state agencies". Contained in this report are maps showing the location of each site, plots of analytical data during the time period, tables of all field and analytical data, a table comparing the concentration of each analyte at the different sites, a table of precipitation weighted data for each site, plots comparing field and laboratory pH and conductivity measurements, and quality control tables and plots giving information on overall data quality.

The purpose of this contract is to provide a central analytical laboratory for the analysis of wet acid precipitation samples collected by state sampling networks. The use of a central laboratory eliminates between-laboratory data biases, making possible the comparison of data from different geographic locations.

Global Geochemistry has served as the central analytical laboratory since OCT 83.

As the central analytical laboratory, Global Geochemistry Corporation (GGC) receives samples from field sites and analyzes them for pH, strong acid, conductivity, flouride, chloride, nitrite, phosphate, bromide, nitrate, sulfate, ammonium, sodium, potassium, calcium, and magnesium.

GGC also provides field support. Initially, all rain samples were sent from the field sites to the laboratory in the sampling buckets. GGC took the sample, cleaned the buckets, and returned them to the sites. During August of 1984, all sites changed to a plastic bucket liner collection. Using this system, each sampling bucket is lined with a plastic bag in which the sample is collected. After collection, the bag is removed and and a corner is snipped with scizzors to transfer the sample to a 500 ml shipping bottle.

Since the change to plastic bucket liner collection, GGC has provided the field sites with plastic bucket liners, 500 ml sample bottles, data sheets, mailing boxes and labels, reference pH and conductivity solution, and miscellaneous supplies (bucket straps, felt tip pens, scizzors, etc.). In addition, GGC has given technical assistance whenever it is requested by the field sites. This assistance has consisted mainly of advice on field pH and conductivity measurement procedures and equipment.

Reports of analytical and quality control data are sent to each state agency on a monthly basis.

## NETWORK INFORMATION

As of NOV '86, there are 30 operational sites in the EPA state network. Sites which were added this year are GABFG, SDAPR, SDBGP, and SDBPR. Figure 1-1 is a map of the eastern United States which indicates the location of each sampling site. Information on each site is presented in Table 1-1.

The sites in this network all do weekly precipitation collection using a wet/dry bucket collector. Early on in the contract (1983) a few dry samples were analyzed as well as the wet samples, but after a month or so of operation, only wet samples were analyzed. All samples except those of the MDHUR site were shipped unrefrigerated to the laboratory. Prior to AUG 84, samples were shipped in the collection buckets themselves. Since AUG 84, samples have been shipped in sealed 500 ml bottles.

## ANALYTICAL METHODS

The laboratory analytical methods used in this contract are presented below:

| DESCRIPTION | ANALYTICAL METHOD | TYPE |
|---|---|---|
| pH | EPA Method 150.1 | pH |
| Conductivity | EPA Method 120.1 | Conductivity |
| Acidity | Global Geochemistry | Gran Titration |
| Cl, PO4, NO3, SO4 | Ion Chromatography | Dionex |
| NH4 | EPA Method 350.1 | Colorimetric |
| Na, K, Ca, Mg | EPA AA Methods 273.1, 258.1, 215.1, 242.1 | Atomic Absorption for Ca, Mg<br>Flame Emission for Na, K. |

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Figure 1.0-1

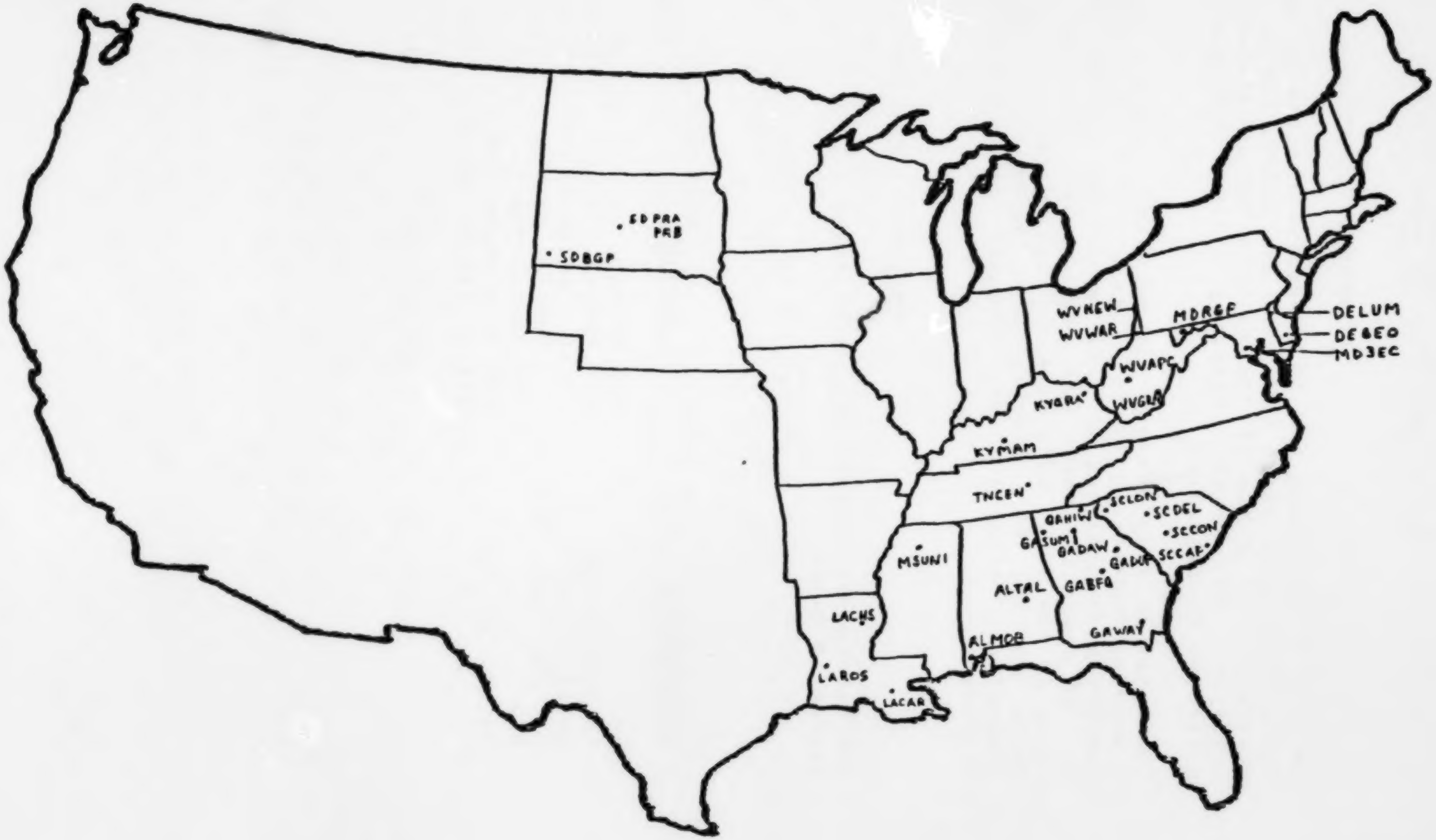
SDPRA
PRB
SDBGP
WVNEW
WVWAR
MDRGF
DELUM
DEBEO
MDJEC
WVAPC
KYGRA
WVGLR
KYMAM
TNCEN
SCLON
SCDEL
SCCON
SCCAF
GAHIW
GASUM
GADAW
GADUP
GABFA
MSUNI
ALTAL
GAWAY
ALMOB
LACHS
LAROS
LACAR

TABLE 1.0-1

EPA STATE ACID PRECIPITATION NETWORK SITE INFORMATION

| SITE | SITE NAME<br>SITE# | NEAREST CITY | COUNTY | STATE CONTACT<br>(TEL#) | LATITUDE<br>LONGITUDE | ELEVATION(FT) |
|---|---|---|---|---|---|---|
| ALMOB | Mobile<br>0101 | Mobile | Mobile | Ken Barrett<br>(205-271-7861) | 30°40'07"<br>88°13'13" | 25 |
| ALTAL | Tallassee<br>0102 | Tallassee | Elmore | " | 32°34'03"<br>85°55'54" | 502 |
| DEGEO | Georgetown<br>0801 | Georgetown | Sussex | Joe Kliment<br>(302-323-4569) | 38°37'<br>75°27' | 15 |
| DELUM | Lum's Pond<br>0802 | Newark | New Castle | " | 39°34'<br>75°43.5' | 65 |
| GADAW | Dawsonville<br>1104 | Gainesville | Dawson | Chris Redmond<br>(404-656-5936) | 34°20'00"<br>83°50'00" | 1075 |
| GABFG | B.F. Grant Forest<br>1103 | Eatonton | Putnam | | 33°24'53"<br>83°31'15" | 564 |
| GADUF | McDuffie Country<br>1105 | Augusta | McDuffie | | 33°53'24"<br>85°40'34" | 433 |
| GAHIW | Hiawassee<br>1101 | Hiawassee | Towns | " | 33°53'24"<br>83°40'34" | 2146 |
| GASUM | Summerville<br>1102 | Summerville | Chattooga | " | 34°28'21"<br>85°24'27" | 663 |
| GAWAY | Waycross Forest<br>1106 | Waycross | Ware | | 31°15'00"<br>82°22'00" | 135 |
| KYGRA | Grayson Lake<br>1801 | Grayson | Carter | Jerry Suddeth<br>(502-564-3382) | 38°14'00"<br>82°59'00" | 603 |
| KYMAM | Mammoth Cave<br>1802 | Brownsville | Edmonson | " | 37°13'00"<br>86°04'00" | 720 |
| LACAR | Carville<br>1903 | Carville | Iberville | Mike Hebert<br>(504-925-6582) | 30°14'27"<br>91°9'33" | 25 |
| LACHS | Chase<br>1902 | Chase | Franklin | " | 32°05'13"<br>91°44'31" | 70 |
| LAROS | Rosepine<br>1901 | Rosepine | Vernon | " | 30°55'21"<br>93°19'22" | 220 |
| MDRGP | Rocky Gap<br>2102 | Cumberland | Allegany | Robert O'Melia<br>(301-225-5291) | 39°43'12"<br>78°38'03" | 1240 |
| MD3EC | The Elms<br>2103 | Lexington Pk | St. Marys | " | 38°12'03"<br>76°22'30" | 5 |
| MSUNI | University<br>2501 | University | Lafayette | Daryl Whittington<br>(601-232-5971) | 34°23'00"<br>89°32'00" | 381 |
| SCCAP | Cape Romain<br>4201 | Mt Pleasant | Charleston | Gene Slice<br>(803-737-7020) | 32°56'32"<br>78°39'27" | 16 |
| SCCON | Congaree Swamp<br>4202 | Hopkins | Richland | " | 33°48'58"<br>80°49'38" | 105 |
| SCDEL | Delta<br>4203 | Whitmire | Union | " | 34°32'21"<br>81°33'40" | 371 |
| SCLON | Lng Crk Fire Twr<br>4204 | Walhalla | Oconee | " | 34°48'19"<br>83°14'17" | 1975 |

TABLE 1.0-1 (CONTINUED)

EPA STATE ACID PRECIPITATION NETWORK SITE INFORMATION

| SITE | SITE NAME<br>SITE# | NEAREST CITY | COUNTY | STATE CONTACT<br>(TEL#) | LATITUDE<br>LONGITUDE | ELEVATION(FT) |
|---|---|---|---|---|---|---|
| SDBGP | Buffalo Gap<br>4301 | Hot Springs | Custer | Neva Welch<br>(605-773-3153 | 43°33'<br>103°25' | 3360 |
| SDAPR | Pierre<br>4302 | Pierre | Hughes | " | 44°20'38"<br>100°14'42" | 1425 |
| SDBPR | Pierre Colocated<br>4303 | Pierre | Hughes | " | 44°20'38"<br>100°14'42" | 1425 |
| TNCEN | Center Hill Res<br>4401 | Smithville | DeKalb | E.R. Brawner, Jr.<br>(615-741-3931) | 36°02'20"<br>85°43'59" | 1005 |
| WVAPC | Charleston APC<br>5001 | Charleston | Kanawha | Ronald Engle<br>(304-348-2275) | 38°20'31"<br>81°37'11" | 605 |
| WVGRN | Greenbrier<br>5002 | Lewisburg | Greenbrier | " | 37°48'39"<br>80°30'46" | 2720 |
| WVNEW | New Manchester<br>5003 | New Cumberland | Hancock | " | 40°31'42"<br>80°34'32" | 1170 |
| WVWAR | Warwood Ave.<br>5004 | Wheeling | Ohio | " | 40°07'14"<br>80°41'59" | 695 |

## 2.0 REPORTS OF DATA BY STATE AND SITE

The data for each state and each site within the state are presented in this section for the time period JAN 86 through DEC 86. Included is a map of each state giving the location of each site, a table of site information, a plot of selected analytical data for each site, and a table of all data for each site.

The points appearing at the top of the plots on the plot limit line should be interpreted as being equal to or greater than the limit.

The plots of data include a plot for each laboratory analyte except for the analytes GRAN (strong acidity), NO2, PO4, and BR. These were excluded for the following reasons: 1) lack of space; 2) pH data are plotted and plots of GRAN data would be redundant; 3) NO2, PO4, and Br are at or below the detection limit (see Appendix A for detection limit information) in most cases and plots would yield little information beyond that fact.

Data are plotted for all samples except for those which have the following values under the "CODE2" mnemonic: "99" - this is a sample voided by GGC because of visually obvious contamination; "31" - a sample which the field operator indicated as having bird droppings; "32" - a sample which the field operator indicated as being cloudy or colored. "34" - a sample which the field operator indicated as having insects; "90" - a dry side bucket.

An explanation of each mnemonic used in the data tables is given in Table 2-1.

Two changes were made in the mnemonics used in 1986. (1) "Site" was removed as a valid mnemonic. (2) "Type" was added as a valid mnemonic.

Negative data in the data tables indicate an instrumental response below the detection limit. The number after the minus sign is the approximate detection limit.

## TABLE 2-1
## MNEMONICS FOR DATABASE EPAAR

| | |
|---|---|
| STN | 5 character code - 1st two characters are state code;next 3 characters are the first three characters of the site name |
| BD | The begin day of sampling written as YRMODY (YEAR, MONTH, DAY) |
| TYPE | Precipitation type: 'blank'=rain, 1-snow, 2=mixture, 3=unknown, 4=dew. |
| BT | Begin time of sampling |
| ED | End day of sampling YRMODY |
| DR | Date received by the GGC laboratory YRMODY |
| EVENT | The number of rain events during the collection period |
| INCH | The total inches of rain which fell during the collection period |
| FWT | The weight of the sample measured in the field |
| FCOND | The conductivity measured in the field |
| FPH | The pH measured in the field |
| CODE1 | Comment code, 1 digit: 1 - insect in bucket, 2 - vegetation in bucket, 3 - Dirt/particulates in bucket, 4 - decaying matter in bucket, 9 - field data sheet wet and illegible |
| CODE2 | Comment code, 2 digit: 10 - no sample received, bucket empty; Operator codes: 21 - sampler malfunction; 31 - bird droppings; 32 - cloudy or discolored; 33 dirt or soot. 99 - sample voided due to CODE1 of 1, 3, or 4. No laboratory analyses performed (other than weighing in of sample and pH measurement) |
| A/C | Molar anion over cation ratio |
| TC/MC | Ratio of the theoretical conductivity to the measured conductivity |
| WT | Volume of sample received by the laboratory |
| PH | pH measured in the laboratory |
| GRAN | Amount of strong acid measured by the GRAN titration |
| COND | Conductivity measured in the laboratory |
| F, Cl, NO2, PO4, BR, NO3, SO4, NH4, NA, K, CA, MG | Laboratory analytical data |

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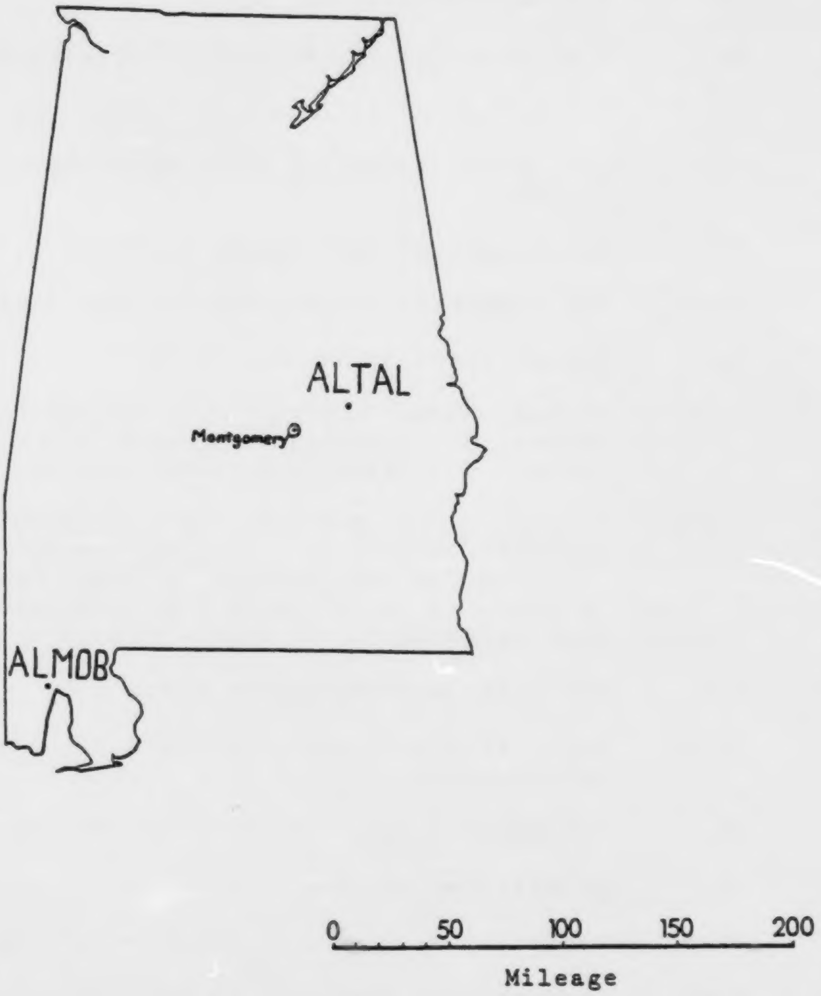
# ALABAMA


ALTAL
Montgomery
ALMOB
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

# ALABAMA

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD(1) BEGIN | END | #SAMPLES | %NON-VOID(2) |
|---|---|---|---|---|---|---|---|
| ALMOB | Mobile | Mobile | Mobile | | | 22 | 100 |
| ALTAL | Tallassee | Tallassee | Elmore | | | 30 | 93.33 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1

Site: ALMOB

Data Plots, JAN '86 - DEC '86

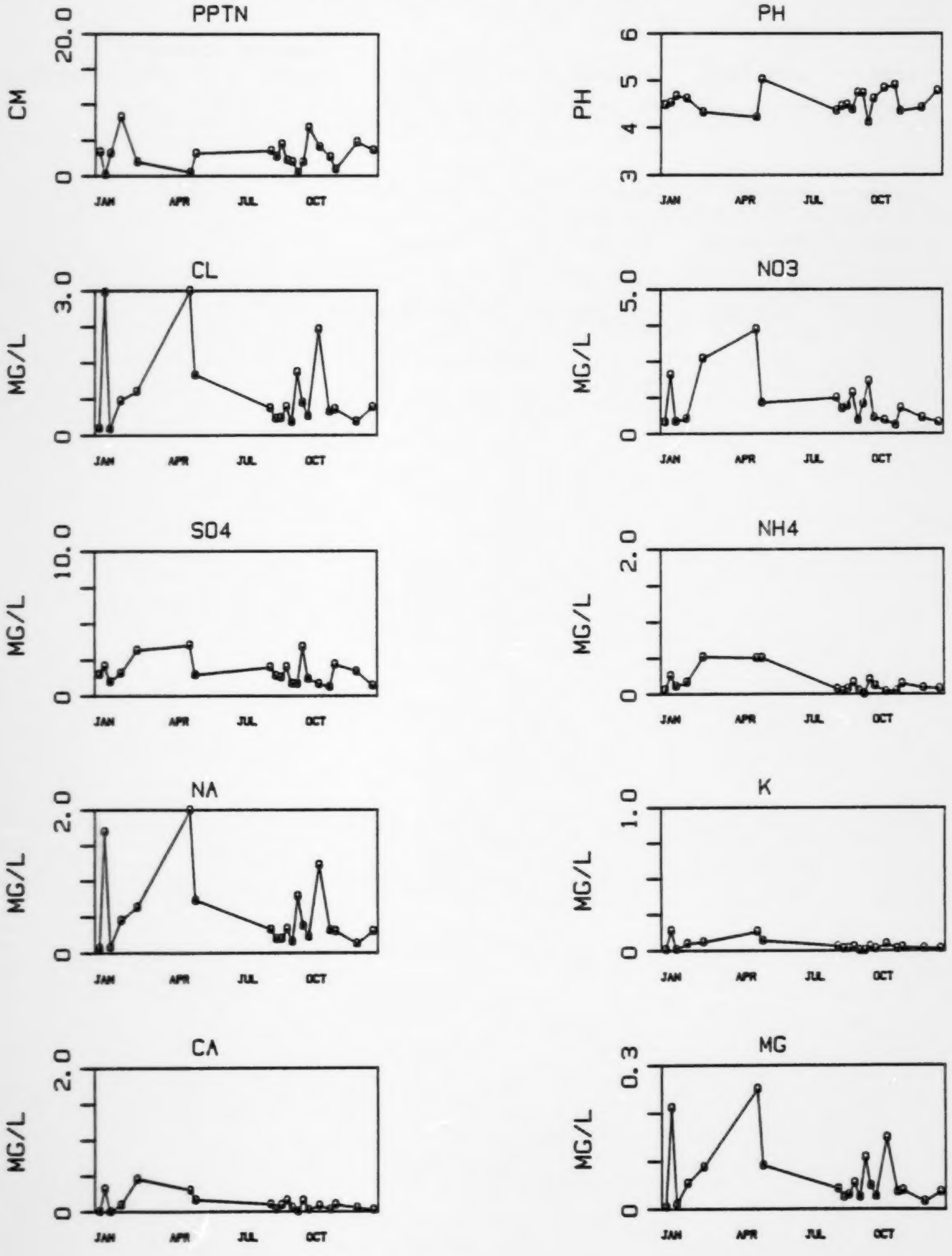
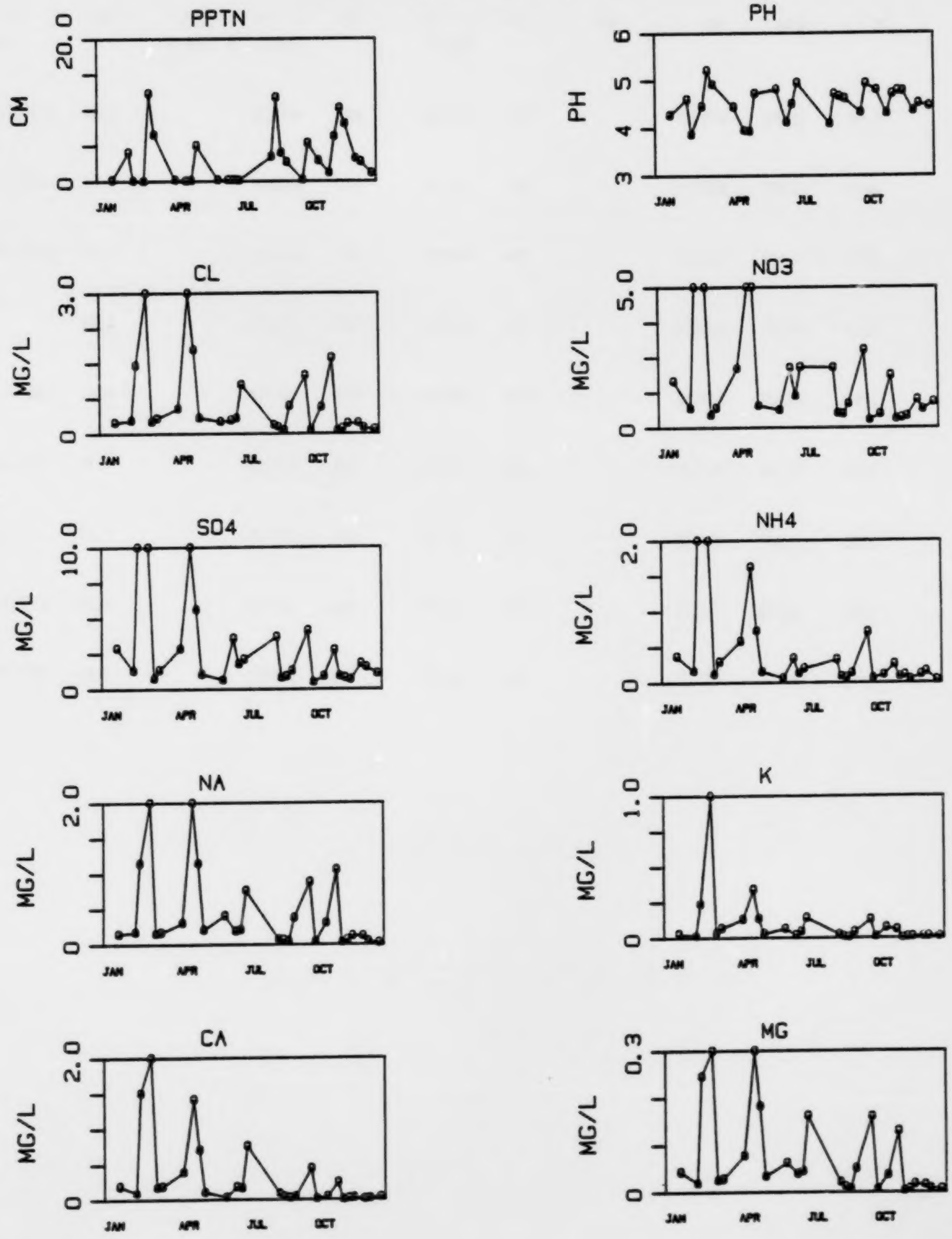


Figure 2-1 (continued)
Site: ALTAL
Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1544 | ALMOB | 860107 | | 940 | 860114 | 936 | 860122 | | 1.34 | 2214.50 | 18.8 |
| 1564 | ALMOB | 860114 | | 936 | 860121 | 904 | 860130 | | 0.09 | 138.00 | |
| 1577 | ALMOB | 860121 | | 904 | 860128 | 858 | 860204 | | 1.25 | 1926.00 | 15.0 |
| 1619 | ALMOB | 860204 | | 915 | 860212 | 930 | 860221 | | 3.25 | | 18.4 |
| 1653 | ALMOB | 860218 | | 1200 | 860225 | 840 | 860403 | | 0.41 | 610.00 | |
| 1662 | ALMOB | 860225 | | 840 | 860304 | 930 | 860310 | | 0.76 | 1226.50 | 40.0 |
| 1835 | ALMOB | 860506 | | 930 | 860513 | 900 | 860520 | | 0.19 | 332.00 | 60.0 |
| 1849 | ALMOB | 860513 | | 900 | 860520 | 856 | 860528 | | 1.25 | 2658.00 | 21.0 |
| 1875 | ALMOB | 860527 | | 857 | 860603 | 907 | 860606 | | 1.81 | 2161.00 | 15.0 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1544 | ALMOB | 860107 | 4.61 |  |  | 1.06 | 1.11 | 550.000 | 4.48 | 40.04 | 13.7 |
| 1564 | ALMOB | 860114 |  | 3 |  | 1.05 | 1.14 | 135.000 | 4.53 | 36.47 | 25.7 |
| 1577 | ALMOB | 860121 | 4.65 |  |  | 1.00 | 1.15 | 550.000 | 4.67 | 27.21 | 9.1 |
| 1619 | ALMOB | 860204 | 4.70 |  | 2133 | 0.97 | 1.10 | 550.000 | 4.61 | 35.84 | 14.2 |
| 1653 | ALMOB | 860218 |  | 3 | 34 | 1.04 | 1.05 | 550.000 | 4.25 | 63.40 | 27.4 |
| 1662 | ALMOB | 860225 | 4.30 | 3 | 21 | 0.99 | 1.03 | 550.000 | 4.32 | 54.46 | 31.4 |
| 1835 | ALMOB | 860506 | 4.10 | 3 |  | 1.03 | 1.00 | 250.000 | 4.22 | 70.20 | 46.2 |
| 1849 | ALMOB | 860513 | 4.80 |  |  | 0.97 | 1.04 | 550.000 | 5.02 | 12.90 | 13.8 |
| 1875 | ALMOB | 860527 | 4.90 |  | 34 | 0.98 | 1.11 | 550.000 | 4.83 | 20.40 | 9.3 |

| ID | STN | BD | F | CL | NO2 | PO4 | BR | NO3 | SO4 | NH4 | NA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l |
| 1544 | ALMOB | 860107 | 0.006 | 0.146 | -0.008 | -0.036 | -0.030 | 0.405 | 1.517 | 0.064 | 0.069 |
| | | | 0.340 | 4.122 | -0.174 | -0.381 | -0.377 | 6.514 | 15.773 | 3.547 | 2.986 |
| 1564 | ALMOB | 860114 | 0.024 | 2.967 | -0.007 | -0.045 | -0.016 | 2.042 | 2.102 | 0.259 | 1.697 |
| | | | 1.252 | 83.683 | -0.156 | -0.472 | -0.200 | 32.882 | 21.864 | 14.342 | 73.830 |
| 1577 | ALMOB | 860121 | 0.003 | 0.132 | -0.013 | 0.021 | -0.026 | 0.419 | 0.985 | 0.109 | 0.079 |
| | | | 0.151 | 3.717 | -0.292 | 0.225 | -0.325 | 6.741 | 10.241 | 6.037 | 3.422 |
| 1619 | ALMOB | 860204 | 0.002 | 0.712 | -0.008 | -0.019 | -0.046 | 0.519 | 1.606 | 0.166 | 0.452 |
| | | | 0.126 | 20.088 | -0.169 | -0.194 | -0.571 | 8.352 | 16.703 | 9.171 | 19.644 |
| 1653 | ALMOB | 860218 | 0.010 | 0.480 | -0.012 | -0.048 | -0.019 | 0.967 | 3.084 | 0.208 | 0.279 |
| | | | 0.520 | 13.528 | -0.263 | -0.507 | -0.241 | 15.571 | 32.077 | 11.548 | 12.143 |
| 1662 | ALMOB | 860225 | 0.018 | 0.906 | -0.013 | -0.053 | -0.032 | 2.602 | 3.183 | 0.521 | 0.636 |
| | | | 0.945 | 25.557 | -0.289 | -0.561 | -0.394 | 41.893 | 33.102 | 28.878 | 27.658 |
| 1835 | ALMOB | 860506 | 0.021 | 3.077 | -0.006 | 0.025 | 0.047 | 3.608 | 3.542 | 0.504 | 2.022 |
| | | | 1.086 | 86.770 | -0.138 | 0.261 | 0.587 | 58.089 | 36.840 | 27.916 | 87.942 |
| 1849 | ALMOB | 860513 | 0.006 | 1.243 | -0.010 | 0.028 | -0.020 | 1.070 | 1.474 | 0.504 | 0.728 |
| | | | 0.309 | 35.059 | -0.224 | 0.297 | -0.247 | 17.224 | 15.335 | 27.942 | 31.668 |
| 1875 | ALMOB | 860527 | 0.005 | 0.598 | -0.016 | 0.011 | -0.009 | 0.515 | 0.906 | 0.127 | 0.332 |
| | | | 0.253 | 16.864 | -0.356 | 0.116 | -0.118 | 8.299 | 9.421 | 7.018 | 14.461 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1544 | ALMOB | 860107 | 0.009 | 0.004 | 0.004 |
| | | | 0.221 | 0.104 | 0.184 |
| 1564 | ALMOB | 860114 | 0.139 | 0.319 | 0.211 |
| | | | 3.568 | 7.967 | 8.699 |
| 1577 | ALMOB | 860121 | 0.009 | -0.033 | 0.011 |
| | | | 0.228 | -0.825 | 0.441 |
| 1619 | ALMOB | 860204 | 0.050 | 0.097 | 0.053 |
| | | | 1.279 | 2.420 | 2.201 |
| 1653 | ALMOB | 860218 | 0.063 | 0.129 | 0.034 |
| | | | 1.603 | 3.217 | 1.402 |
| 1662 | ALMOB | 860225 | 0.061 | 0.455 | 0.089 |
| | | | 1.553 | 11.357 | 3.647 |
| 1835 | ALMOB | 860506 | 0.133 | 0.300 | 0.251 |
| | | | 3.415 | 7.487 | 10.317 |
| 1849 | ALMOB | 860513 | 0.069 | 0.164 | 0.091 |
| | | | 1.752 | 4.080 | 3.745 |
| 1875 | ALMOB | 860527 | 0.021 | 0.098 | 0.051 |
| | | | 0.538 | 2.436 | 2.101 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2100 | ALMOB | 860819 |  | 900 | 860826 | 900 | 860904 |  | 1.39 | 2349.00 | 25.6 |
| 2147 | ALMOB | 860902 |  | 940 | 860909 | 940 | 860919 |  | 1.76 | 2882.10 | 17.6 |
| 2159 | ALMOB | 860909 |  | 940 | 860916 | 930 | 860925 |  | 0.88 | 1600.80 | 24.4 |
| 2160 | ALMOB | 860826 |  | 900 | 860902 | 940 | 860925 |  | 1.06 | 1842.10 | 16.4 |
| 2181 | ALMOB | 860916 |  | 930 | 860923 | 910 | 860926 |  | 0.77 | 1247.60 | 17.3 |
| 2207 | ALMOB | 860923 |  | 910 | 860930 | 920 | 861009 |  | 0.19 | 323.00 | 16.3 |
| 2221 | ALMOB | 860930 |  | 920 | 861007 | 915 | 861017 |  | 0.77 | 1318.00 | 47.4 |
| 2234 | ALMOB | 861007 |  | 915 | 861014 | 900 | 861023 |  | 2.66 | 4635.50 | 18.4 |
| 2266 | ALMOB | 861021 |  | 915 | 861028 | 905 | 861031 |  | 1.60 | 2656.50 | 18.6 |
| 2306 | ALMOB | 861104 |  | 926 | 861111 | 900 | 861121 |  | 1.03 | 1714.00 | 15.0 |
| 2325 | ALMOB | 861111 |  | 900 | 861118 | 920 | 861124 |  |  | 614.00 | 29.9 |
| 2410 | ALMOB | 861209 |  | 915 | 861216 | 917 | 861222 |  | 1.86 | 3083.00 | 23.5 |
| 2480 | ALMOB | 861230 |  | 935 | 870106 | 900 | 871014 |  | 1.41 | 2408.00 | 14.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2108 | ALMOB | 860819 | 4.40 | | | 1.12 | 1.15 | 550.0 | 4.36 | 52.6 | 19.7 |
| 2147 | ALMOB | 860902 | 4.50 | | | 1.02 | 1.17 | 550.0 | 4.49 | 33.9 | 14.1 |
| 2159 | ALMOB | 860909 | 4.50 | | | 1.07 | 1.08 | 525.0 | 4.38 | 46.8 | 21.1 |
| 2160 | ALMOB | 860826 | 4.60 | | | 1.10 | 1.13 | 550.0 | 4.46 | 40.2 | 15.0 |
| 2181 | ALMOB | 860916 | 4.70 | 3 | | 1.07 | 1.22 | 550.0 | 4.74 | 22.1 | 8.0 |
| 2207 | ALMOB | 860923 | 5.45 | | | 1.36 | 1.31 | 10.0 | 4.73 | | 11.3 |
| 2221 | ALMOB | 860930 | 5.10 | | | 1.04 | 1.06 | 550.0 | 4.11 | 87.4 | 36.3 |
| 2234 | ALMOB | 861007 | 4.70 | | | 1.05 | 1.22 | 550.0 | 4.61 | 29.4 | 10.8 |
| 2266 | ALMOB | 861021 | 4.90 | | | 1.02 | 1.12 | 550.0 | 4.84 | 18.8 | 13.9 |
| 2306 | ALMOB | 861104 | 5.05 | | | 0.95 | 1.23 | 550.0 | 4.90 | 16.3 | 6.4 |
| 2325 | ALMOB | 861111 | 4.80 | 3 | 21 | 1.03 | 1.10 | 350.0 | 4.35 | 50.6 | 21.0 |
| 2410 | ALMOB | 861209 | 4.40 | | | 1.10 | 1.15 | 550.0 | 4.42 | 44.5 | 15.9 |
| 2480 | ALMOB | 861230 | 4.80 | | | 1.01 | 1.20 | 550.0 | 4.78 | 23.5 | 8.3 |

```
ID     STN      BD             F        CL       NO2       PO4        BR       NO3       SO4       NH4        NA
                          ug/ml     ug/ml     ug/ml     ug/ml     ug/ml     ug/ml     ug/ml     ug/ml     ug/ml
                       umoles/l  umoles/l  umoles/l  umoles/l  umoles/l  umoles/l  umoles/l  umoles/l  umoles/l

 2108  ALMOB   860819      0.018     0.559    -0.014    -0.074    -0.062     1.240     2.014     0.069     0.323
                           0.947    15.775    -0.297    -0.777    -0.778    19.971    20.946     3.836    14.045

 2147  ALMOB   860902      0.012     0.357    -0.009     0.027    -0.029     0.956     1.290     0.076     0.200
                           0.622    10.070    -0.206     0.286    -0.362    15.391    13.415     4.214     8.716

 2159  ALMOB   860909      0.012     0.589    -0.008     0.033    -0.027     1.421     2.040     0.164     0.336
                           0.650    16.597    -0.175     0.350    -0.344    22.875    21.216     9.078    14.609

 2160  ALMOB   860826      0.006     0.341    -0.008     0.030    -0.027     0.863     1.403     0.038     0.195
                           0.294     9.608    -0.180     0.312    -0.343    13.900    14.596     2.091     8.469

 2181  ALMOB   860916      0.007     0.274    -0.014     0.029    -0.025     0.464     0.868     0.048     0.157
                           0.384     7.719    -0.306     0.304    -0.308     7.464     9.029     2.633     6.836

 2207  ALMOB   860923     -0.032     1.304    -0.027     0.408    -0.011     1.028     0.852    -0.003     0.786
                          -1.664    36.774    -0.597     4.283    -0.135    16.544     8.864    -0.149    34.186

 2221  ALMOB   860930      0.025     0.672     0.000     0.020     0.000     1.812     3.434     0.198     0.375
                           1.332    18.963     0.000     0.206     0.000    29.180    35.713    10.971    16.332

 2234  ALMOB   861007      0.006     0.394     0.000     0.046     0.000     0.550     1.197     0.114     0.228
                           0.333    11.098     0.000     0.480     0.000     8.852    12.450     6.343     9.908

 2266  ALMOB   861021     -0.007     2.188    -0.006     0.074    -0.019     0.454     0.816     0.032     1.222
                          -0.372    61.713    -0.133     0.772    -0.241     7.311     8.483     1.769    53.148

 2306  ALMOB   861104     -0.001     0.486    -0.018    -0.025    -0.053     0.287     0.630     0.044     0.313
                          -0.041    13.700    -0.399    -0.262    -0.660     4.625     6.551     2.429    13.604

 2325  ALMOB   861111     -0.001     0.535    -0.012     0.048    -0.008     0.877     2.197     0.144     0.300
                          -0.074    15.080    -0.254     0.508    -0.100    14.115    22.852     7.997    13.070

 2410  ALMOB   861209     -0.004     0.276    -0.006     0.089     0.183     0.538     1.709     0.083     0.128
                          -0.218     7.769    -0.121     0.931     2.289     8.666    17.774     4.610     5.550

 2480  ALMOB   861230     -0.002     0.576    -0.004     0.028    -0.020     0.389     0.713     0.073     0.301
                          -0.101    16.247    -0.079     0.299    -0.248     6.268     7.417     4.066    13.102
```

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 2108 | ALMOB | 860819 | 0.031 | 0.101 | 0.042 |
| | | | 0.784 | 2.515 | 1.747 |
| 2147 | ALMOB | 860902 | 0.016 | 0.096 | 0.030 |
| | | | 0.411 | 2.402 | 1.241 |
| 2159 | ALMOB | 860909 | 0.027 | 0.157 | 0.055 |
| | | | 0.682 | 3.925 | 2.254 |
| 2160 | ALMOB | 860826 | 0.014 | 0.032 | 0.025 |
| | | | 0.348 | 0.786 | 1.036 |
| 2181 | ALMOB | 860916 | -0.007 | 0.056 | 0.025 |
| | | | -0.173 | 1.409 | 1.033 |
| 2207 | ALMOB | 860923 | -0.028 | -0.242 | 0.108 |
| | | | -0.721 | -6.027 | 4.455 |
| 2221 | ALMOB | 860930 | 0.030 | 0.153 | 0.049 |
| | | | 0.760 | 3.821 | 2.011 |
| 2234 | ALMOB | 861007 | 0.013 | 0.028 | 0.027 |
| | | | 0.321 | 0.709 | 1.104 |
| 2266 | ALMOB | 861021 | 0.045 | 0.082 | 0.149 |
| | | | 1.164 | 2.057 | 6.114 |
| 2306 | ALMOB | 861104 | 0.013 | 0.028 | 0.036 |
| | | | 0.327 | 0.688 | 1.474 |
| 2325 | ALMOB | 861111 | 0.023 | 0.097 | 0.039 |
| | | | 0.589 | 2.412 | 1.607 |
| 2410 | ALMOB | 861209 | 0.017 | 0.051 | 0.016 |
| | | | 0.435 | 1.267 | 0.645 |
| 2480 | ALMOB | 861230 | 0.015 | 0.020 | 0.036 |
| | | | 0.381 | 0.502 | 1.476 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1565 | ALTAL | 860114 | | | 860121 | | 860130 | | | 102.00 | |
| 1584 | ALTAL | 860121 | | | 860128 | | 860205 | | | 148.50 | |
| 1637 | ALTAL | 860212 | | 1000 | 860218 | 1000 | 860227 | | | 2766.30 | 13.4 |
| 1650 | ALTAL | 860218 | | | 860227 | | 860303 | | | 62.50 | |
| 1692 | ALTAL | 860304 | | | 860311 | | 860321 | | | 7.50 | |
| 1704 | ALTAL | 860311 | | 1000 | 860318 | 1000 | 860327 | | | 8330.50 | 5.5 |
| 1730 | ALTAL | 860318 | | 1000 | 860325 | 1000 | 860409 | | | 4419.20 | 14.2 |
| 1783 | ALTAL | 860415 | | | 860422 | | 860429 | | | 126.30 | |
| 1829 | ALTAL | 860429 | | | 860506 | | 860513 | | | 41.00 | |
| 1836 | ALTAL | 860506 | | | 860513 | | 860520 | | | 89.00 | |
| 1850 | ALTAL | 860513 | | 1000 | 860520 | 1000 | 860528 | | | 3388.10 | 13.9 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1565 | ALTAL | 860114 | | | 1099 | 9999.00 | 9999.00 | | | | |
| 1584 | ALTAL | 860121 | | | | 1.01 | 1.03 | 150.000 | 4.28 | 61.22 | 27.1 |
| 1637 | ALTAL | 860212 | 5.12 | | | 0.96 | 1.16 | 550.000 | 4.60 | 29.33 | 11.8 |
| 1650 | ALTAL | 860218 | | 3 | | 1.05 | 1.00 | 70.000 | 3.87 | 147.12 | 95.7 |
| 1692 | ALTAL | 860304 | | | | 0.98 | 0.98 | 2.000 | 4.46 | | 244.2 |
| 1704 | ALTAL | 860311 | 5.36 | 3 | | 1.04 | 1.10 | 550.000 | 5.21 | 12.83 | 5.5 |
| 1730 | ALTAL | 860318 | 4.66 | | | 0.99 | 1.15 | 550.000 | 4.92 | 15.41 | 8.9 |
| 1783 | ALTAL | 860415 | | 3 | | 0.99 | 1.11 | 120.000 | 4.44 | 41.33 | 23.1 |
| 1829 | ALTAL | 860429 | | 3 | | 1.05 | 1.04 | 42.000 | 3.95 | | 95.4 |
| 1836 | ALTAL | 860506 | | | | 1.08 | 0.96 | 85.000 | 3.93 | 141.80 | 73.5 |
| 1850 | ALTAL | 860513 | 4.88 | | | 1.00 | 1.09 | 550.000 | 4.72 | 24.00 | 10.7 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1565 | ALTAL | 860114 | | | | | | | | | |
| 1584 | ALTAL | 860121 | 0.014 | 0.238 | -0.012 | -0.010 | -0.033 | 1.657 | 2.872 | 0.369 | 0.146 |
| | | | 0.715 | 6.713 | -0.264 | -0.100 | -0.408 | 26.678 | 29.872 | 20.457 | 6.339 |
| 1637 | ALTAL | 860212 | 0.004 | 0.282 | -0.012 | -0.022 | -0.052 | 0.685 | 1.300 | 0.168 | 0.173 |
| | | | 0.215 | 7.941 | -0.269 | -0.228 | -0.649 | 11.025 | 13.515 | 9.309 | 7.540 |
| 1650 | ALTAL | 860218 | 0.077 | 1.455 | -0.027 | -0.054 | -0.066 | 7.088 | 12.599 | 2.131 | 1.148 |
| | | | 4.050 | 41.030 | -0.585 | -0.569 | -0.820 | 114.124 | 131.032 | 118.045 | 49.955 |
| 1692 | ALTAL | 860304 | 0.318 | 17.223 | -0.012 | -0.680 | 1.471 | 25.501 | 36.103 | 8.308 | 12.333 |
| | | | 16.746 | 485.688 | -0.255 | -7.142 | 18.415 | 410.567 | 375.473 | 460.276 | 536.490 |
| 1704 | ALTAL | 860311 | 0.009 | 0.257 | -0.011 | 0.047 | -0.069 | 0.451 | 0.759 | 0.121 | 0.152 |
| | | | 0.486 | 7.238 | -0.237 | 0.498 | -0.867 | 7.264 | 7.896 | 6.684 | 6.601 |
| 1730 | ALTAL | 860318 | 0.005 | 0.330 | -0.015 | -0.025 | -0.043 | 0.694 | 1.345 | 0.296 | 0.167 |
| | | | 0.262 | 9.302 | -0.327 | -0.267 | -0.541 | 11.181 | 13.984 | 16.414 | 7.277 |
| 1783 | ALTAL | 860415 | 0.016 | 0.532 | -0.007 | 0.014 | -0.009 | 2.098 | 2.843 | 0.582 | 0.303 |
| | | | 0.834 | 15.016 | -0.142 | 0.142 | -0.118 | 33.775 | 29.567 | 32.221 | 13.184 |
| 1829 | ALTAL | 860429 | 0.096 | 4.766 | -0.006 | 0.019 | 0.051 | 8.962 | 10.878 | 1.620 | 3.689 |
| | | | 5.036 | 134.396 | -0.124 | 0.202 | 0.644 | 144.283 | 113.129 | 89.749 | 160.456 |
| 1836 | ALTAL | 860506 | 0.058 | 1.792 | -0.007 | 0.025 | 0.049 | 6.854 | 5.596 | 0.726 | 1.147 |
| | | | 3.068 | 50.523 | -0.142 | 0.262 | 0.617 | 110.356 | 58.202 | 40.211 | 49.894 |
| 1850 | ALTAL | 860513 | 0.006 | 0.330 | -0.010 | 0.032 | -0.020 | 0.775 | 1.054 | 0.152 | 0.204 |
| | | | 0.319 | 9.309 | -0.227 | 0.333 | -0.248 | 12.483 | 10.959 | 8.407 | 8.859 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1565 | ALTAL | 860114 | | | |
| 1584 | ALTAL | 860121 | 0.028 | 0.192 | 0.044 |
| | | | 0.705 | 4.780 | 1.790 |
| 1637 | ALTAL | 860212 | 0.016 | 0.094 | 0.019 |
| | | | 0.414 | 2.342 | 0.782 |
| 1650 | ALTAL | 860218 | 0.238 | 1.506 | 0.246 |
| | | | 6.085 | 37.569 | 10.122 |
| 1692 | ALTAL | 860304 | 1.432 | 8.555 | 2.618 |
| | | | 36.643 | 213.437 | 107.708 |
| 1704 | ALTAL | 860311 | 0.035 | 0.176 | 0.025 |
| | | | 0.903 | 4.396 | 1.048 |
| 1730 | ALTAL | 860318 | 0.067 | 0.190 | 0.029 |
| | | | 1.718 | 4.729 | 1.182 |
| 1783 | ALTAL | 860415 | 0.129 | 0.392 | 0.078 |
| | | | 3.299 | 9.784 | 3.196 |
| 1829 | ALTAL | 860429 | 0.338 | 1.417 | 0.544 |
| | | | 8.644 | 35.363 | 22.394 |
| 1836 | ALTAL | 860506 | 0.134 | 0.706 | 0.182 |
| | | | 3.417 | 17.610 | 7.507 |
| 1850 | ALTAL | 860513 | 0.030 | 0.103 | 0.034 |
| | | | 0.766 | 2.578 | 1.389 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

13-APR-87

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1932 | ALTAL | 860610 | | | 860617 | | 860625 | | | 119.10 | |
| 1959 | ALTAL | 860624 | | | 860701 | | 860709 | | | 123.30 | |
| 1967 | ALTAL | 860701 | | 1000 | 860708 | 1000 | 860714 | | | 136.20 | |
| 1985 | ALTAL | 860708 | | 1000 | 860715 | 1000 | 860722 | | | 87.50 | |
| 2109 | ALTAL | 860820 | | 1000 | 860826 | 1000 | 860904 | | | 2335.30 | 38.3 |
| 2135 | ALTAL | 860902 | | 1000 | 860909 | 1000 | 860917 | | | 2695.40 | 9.7 |
| 2161 | ALTAL | 860826 | | 1000 | 860902 | 1000 | 860925 | | | 7924.40 | 9.1 |
| 2162 | ALTAL | 860909 | | 1000 | 860916 | 1000 | 860925 | | | 1807.00 | 10.1 |
| 2192 | ALTAL | 860916 | | 1000 | 860923 | 1000 | 861003 | | | 33.10 | |
| 2225 | ALTAL | 860930 | | 1000 | 861007 | 1000 | 861020 | | | 135.80 | |
| 2250 | ALTAL | 861007 | | 1000 | 861014 | 1000 | 861029 | | | 3590.00 | 5.9 |
| 2289 | ALTAL | 861021 | | 1000 | 861028 | 1000 | 861107 | | | 1959.00 | 10.3 |
| 2307 | ALTAL | 861104 | | 900 | 861111 | 900 | 861121 | | | 787.80 | 3.2 |
| 2326 | ALTAL | 861111 | | 900 | 861118 | 900 | 861124 | | | 4240.40 | 9.8 |
| 2364 | ALTAL | 861118 | | 900 | 861125 | 1115 | 861204 | | | 6922.50 | 8.5 |
| 2372 | ALTAL | 861125 | | 900 | 861202 | 900 | 861205 | | | 5425.30 | 8.5 |
| 2411 | ALTAL | 861209 | | 900 | 861216 | 900 | 861222 | | | 2168.30 | 20.9 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

13-APR-87
PAGE 1-2

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2460 | ALTAL | 861216 | | 900 | 861223 | 900 | 870109 | | | 1816.80 | 15.8 |
| 2473 | ALTAL | 861230 | | 900 | 870106 | 900 | 870112 | | | 741.30 | 14.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1932 | ALTAL | 860610 |  |  |  | 0.69 | 1.14 | 30.0 | 4.81 |  | 8.2 |
| 1959 | ALTAL | 860624 |  |  |  | 1.04 | 1.00 | 120.0 | 4.12 | 85.2 | 37.8 |
| 1967 | ALTAL | 860701 |  |  |  | 1.08 | 1.01 | 50.0 | 4.50 |  | 17.6 |
| 1985 | ALTAL | 860708 |  | 3 |  | 1.00 | 1.08 | 100.0 | 4.94 | 17.8 | 16.8 |
| 2109 | ALTAL | 860820 | 4.62 |  |  | 1.09 | 1.13 | 440.0 | 4.09 | 87.1 | 34.6 |
| 2135 | ALTAL | 860902 | 4.63 |  |  | 1.03 | 1.25 | 405.0 | 4.66 | 24.6 | 8.3 |
| 2161 | ALTAL | 860826 | 4.85 |  |  | 1.01 | 1.36 | 440.0 | 4.71 | 23.6 | 7.2 |
| 2162 | ALTAL | 860909 | 4.67 |  |  | 1.05 | 1.17 | 440.0 | 4.61 | 30.6 | 12.7 |
| 2192 | ALTAL | 860916 |  | 3 | 99 | 9999.00 | 9999.00 | 12.0 | 4.17 |  |  |
| 2225 | ALTAL | 860930 |  | 3 |  | 1.03 | 1.08 | 70.0 | 4.33 | 55.1 | 33.3 |
| 2250 | ALTAL | 861007 | 5.07 |  |  | 0.96 | 1.46 | 525.0 | 4.93 | 14.7 | 4.0 |
| 2289 | ALTAL | 861021 | 4.80 |  |  | 1.06 | 1.18 | 330.0 | 4.79 | 20.4 | 8.9 |
| 2307 | ALTAL | 861104 | 4.21 | 3 |  | 1.00 | 1.03 | 350.0 | 4.31 | 57.4 | 31.0 |
| 2326 | ALTAL | 861111 | 4.62 |  |  | 1.06 | 1.25 | 475.0 | 4.71 | 25.4 | 7.4 |
| 2364 | ALTAL | 861118 | 4.73 |  |  | 0.97 | 1.31 | 460.0 | 4.78 | 21.7 | 6.4 |
| 2372 | ALTAL | 861125 | 4.76 |  |  | 1.03 | 1.29 | 440.0 | 4.77 | 21.8 | 6.7 |
| 2411 | ALTAL | 861209 | 4.27 |  |  | 1.10 | 1.11 | 480.0 | 4.36 | 48.7 | 18.6 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2460 | ALTAL | 861216 | 4.43 | | | 1.06 | 1.14 | 475.0 | 4.51 | 37.1 | 13.2 |
| 2473 | ALTAL | 861230 | 4.45 | | | 1.05 | 1.19 | 525.0 | 4.45 | 40.6 | 13.1 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

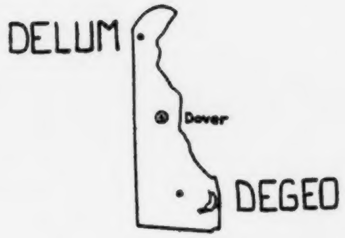
| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1932 | ALTAL | 860610 | 0.005 | 0.254 | -0.011 | -0.014 | -0.018 | 0.622 | 0.643 | 0.061 | 0.406 |
| | | | 0.278 | 7.166 | -0.246 | -0.150 | -0.232 | 10.012 | 6.690 | 3.369 | 17.679 |
| 1959 | ALTAL | 860624 | 0.031 | 0.285 | -0.008 | 0.046 | -0.004 | 2.111 | 3.562 | 0.342 | 0.189 |
| | | | 1.650 | 8.034 | -0.168 | 0.481 | -0.056 | 33.992 | 37.049 | 18.939 | 8.211 |
| 1967 | ALTAL | 860701 | 0.013 | 0.331 | -0.005 | 0.028 | -0.003 | 1.124 | 1.761 | 0.133 | 0.207 |
| | | | 0.703 | 9.339 | -0.114 | 0.298 | -0.032 | 18.090 | 18.310 | 7.365 | 9.007 |
| 1985 | ALTAL | 860708 | 0.031 | 1.038 | -0.001 | 0.046 | -0.009 | 2.152 | 2.097 | 0.203 | 0.762 |
| | | | 1.610 | 29.273 | -0.031 | 0.487 | -0.112 | 34.642 | 21.806 | 11.221 | 33.131 |
| 2109 | ALTAL | 860820 | 0.033 | 0.181 | -0.014 | -0.080 | -0.066 | 2.127 | 3.679 | 0.323 | 0.071 |
| | | | 1.719 | 5.099 | -0.306 | -0.838 | -0.821 | 34.242 | 38.259 | 17.896 | 3.093 |
| 2135 | ALTAL | 860902 | 0.009 | 0.069 | -0.020 | 0.041 | -0.004 | 0.480 | 0.906 | 0.071 | 0.044 |
| | | | 0.498 | 1.958 | -0.425 | 0.426 | -0.045 | 7.727 | 9.420 | 3.948 | 1.907 |
| 2161 | ALTAL | 860826 | 0.005 | 0.134 | -0.009 | 0.042 | -0.027 | 0.509 | 0.815 | 0.088 | 0.070 |
| | | | 0.283 | 3.789 | -0.191 | 0.445 | -0.340 | 8.192 | 8.474 | 4.875 | 3.029 |
| 2162 | ALTAL | 860909 | 0.007 | 0.579 | -0.009 | 0.036 | -0.027 | 0.848 | 1.298 | 0.138 | 0.375 |
| | | | 0.378 | 16.340 | -0.196 | 0.379 | -0.338 | 13.660 | 13.503 | 7.647 | 16.305 |
| 2192 | ALTAL | 860916 | | | | | | | | | |
| 2225 | ALTAL | 860930 | 0.036 | 1.228 | 0.000 | 0.022 | 0.000 | 2.758 | 4.122 | 0.706 | 0.880 |
| | | | 1.903 | 34.635 | 0.000 | 0.228 | 0.000 | 44.402 | 42.867 | 39.098 | 38.288 |
| 2250 | ALTAL | 861007 | 0.004 | 0.073 | 0.000 | 0.032 | 0.000 | 0.270 | 0.490 | 0.070 | 0.039 |
| | | | 0.195 | 2.069 | 0.000 | 0.341 | 0.000 | 4.342 | 5.097 | 3.894 | 1.717 |
| 2289 | ALTAL | 861021 | 0.009 | 0.563 | -0.006 | 0.053 | -0.004 | 0.479 | 0.913 | 0.112 | 0.303 |
| | | | 0.454 | 15.874 | -0.128 | 0.560 | -0.053 | 7.707 | 9.493 | 6.179 | 13.169 |
| 2307 | ALTAL | 861104 | 0.019 | 1.612 | -0.018 | -0.025 | -0.049 | 1.854 | 2.729 | 0.259 | 1.053 |
| | | | 0.983 | 45.465 | -0.382 | -0.261 | -0.608 | 29.857 | 28.382 | 14.332 | 45.825 |
| 2326 | ALTAL | 861111 | -0.001 | 0.063 | -0.012 | 0.021 | 0.038 | 0.317 | 0.912 | 0.084 | 0.029 |
| | | | -0.077 | 1.772 | -0.262 | 0.225 | 0.481 | 5.101 | 9.484 | 4.673 | 1.279 |
| 2364 | ALTAL | 861118 | -0.001 | 0.110 | -0.011 | 0.031 | -0.006 | 0.351 | 0.794 | 0.110 | 0.065 |
| | | | -0.047 | 3.106 | -0.246 | 0.330 | -0.076 | 5.646 | 8.258 | 6.121 | 2.832 |
| 2372 | ALTAL | 861125 | -0.001 | 0.213 | -0.002 | 0.058 | -0.031 | 0.408 | 0.658 | 0.046 | 0.119 |
| | | | -0.054 | 6.015 | -0.042 | 0.613 | -0.390 | 6.564 | 6.842 | 2.558 | 5.194 |
| 2411 | ALTAL | 861209 | -0.004 | 0.221 | -0.006 | 0.082 | -0.042 | 0.981 | 1.792 | 0.115 | 0.114 |
| | | | -0.219 | 6.237 | -0.124 | 0.860 | -0.528 | 15.787 | 18.632 | 6.361 | 4.968 |

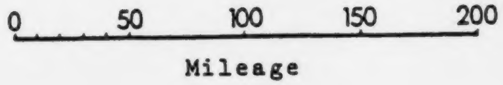
| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2460 | ALTAL | 861216 | -0.010 | 0.115 | -0.010 | -0.035 | -0.009 | 0.643 | 1.515 | 0.158 | 0.042 |
|  |  |  | -0.517 | 3.234 | -0.218 | -0.370 | -0.114 | 10.352 | 15.752 | 8.737 | 1.807 |
| 2473 | ALTAL | 861230 | -0.006 | 0.089 | -0.007 | -0.052 | 0.204 | 0.896 | 1.089 | 0.036 | 0.020 |
|  |  |  | -0.299 | 2.519 | -0.160 | -0.541 | 2.551 | 14.431 | 11.321 | 2.005 | 0.853 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1932 | ALTAL | 860610 | 0.062 | 0.033 | 0.062 |
| | | | 1.594 | 0.823 | 2.552 |
| 1959 | ALTAL | 860624 | 0.018 | 0.182 | 0.039 |
| | | | 0.469 | 4.537 | 1.601 |
| 1967 | ALTAL | 860701 | 0.045 | 0.166 | 0.045 |
| | | | 1.143 | 4.132 | 1.868 |
| 1985 | ALTAL | 860708 | 0.139 | 0.759 | 0.161 |
| | | | 3.552 | 18.935 | 6.637 |
| 2109 | ALTAL | 860820 | 0.022 | 0.083 | 0.021 |
| | | | 0.556 | 2.064 | 0.861 |
| 2135 | ALTAL | 860902 | 0.005 | 0.025 | 0.008 |
| | | | 0.138 | 0.615 | 0.329 |
| 2161 | ALTAL | 860826 | 0.010 | 0.039 | 0.012 |
| | | | 0.244 | 0.973 | 0.491 |
| 2162 | ALTAL | 860909 | 0.041 | 0.045 | 0.050 |
| | | | 1.047 | 1.121 | 2.075 |
| 2192 | ALTAL | 860916 | | | |
| 2225 | ALTAL | 860930 | 0.126 | 0.442 | 0.159 |
| | | | 3.222 | 11.032 | 6.554 |
| 2250 | ALTAL | 861007 | 0.009 | 0.010 | 0.007 |
| | | | 0.224 | 0.259 | 0.272 |
| 2289 | ALTAL | 861021 | 0.070 | 0.040 | 0.037 |
| | | | 1.803 | 0.992 | 1.513 |
| 2307 | ALTAL | 861104 | 0.057 | 0.241 | 0.128 |
| | | | 1.455 | 6.023 | 5.277 |
| 2326 | ALTAL | 861111 | 0.002 | -0.015 | 0.003 |
| | | | 0.057 | -0.370 | 0.131 |
| 2364 | ALTAL | 861118 | 0.006 | 0.017 | 0.007 |
| | | | 0.153 | 0.419 | 0.287 |
| 2372 | ALTAL | 861125 | 0.009 | 0.023 | 0.017 |
| | | | 0.232 | 0.585 | 0.685 |
| 2411 | ALTAL | 861209 | 0.012 | 0.000 | 0.015 |
| | | | 0.316 | 0.008 | 0.629 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2460 | ALTAL | 861216 | 0.012 | 0.013 | 0.007 |
| | | | 0.314 | 0.317 | 0.294 |
| 2473 | ALTAL | 861230 | 0.009 | 0.031 | 0.007 |
| | | | 0.228 | 0.772 | 0.275 |

# DELAWARE


DELUM
Dover
DEGEO


0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

## DELAWARE

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD[1] BEGIN | END | #SAMPLES | %NON-VOID[2] |
|---|---|---|---|---|---|---|---|
| DEGEO | Georgetown | Georgetown | Sussex | | | 30 | 100 |
| DELUM | Lum's Pond | Newark | New Castle | | | 38 | 100 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)

Site; DEGEO

Data Pltos, JAN '86 - DEC '86

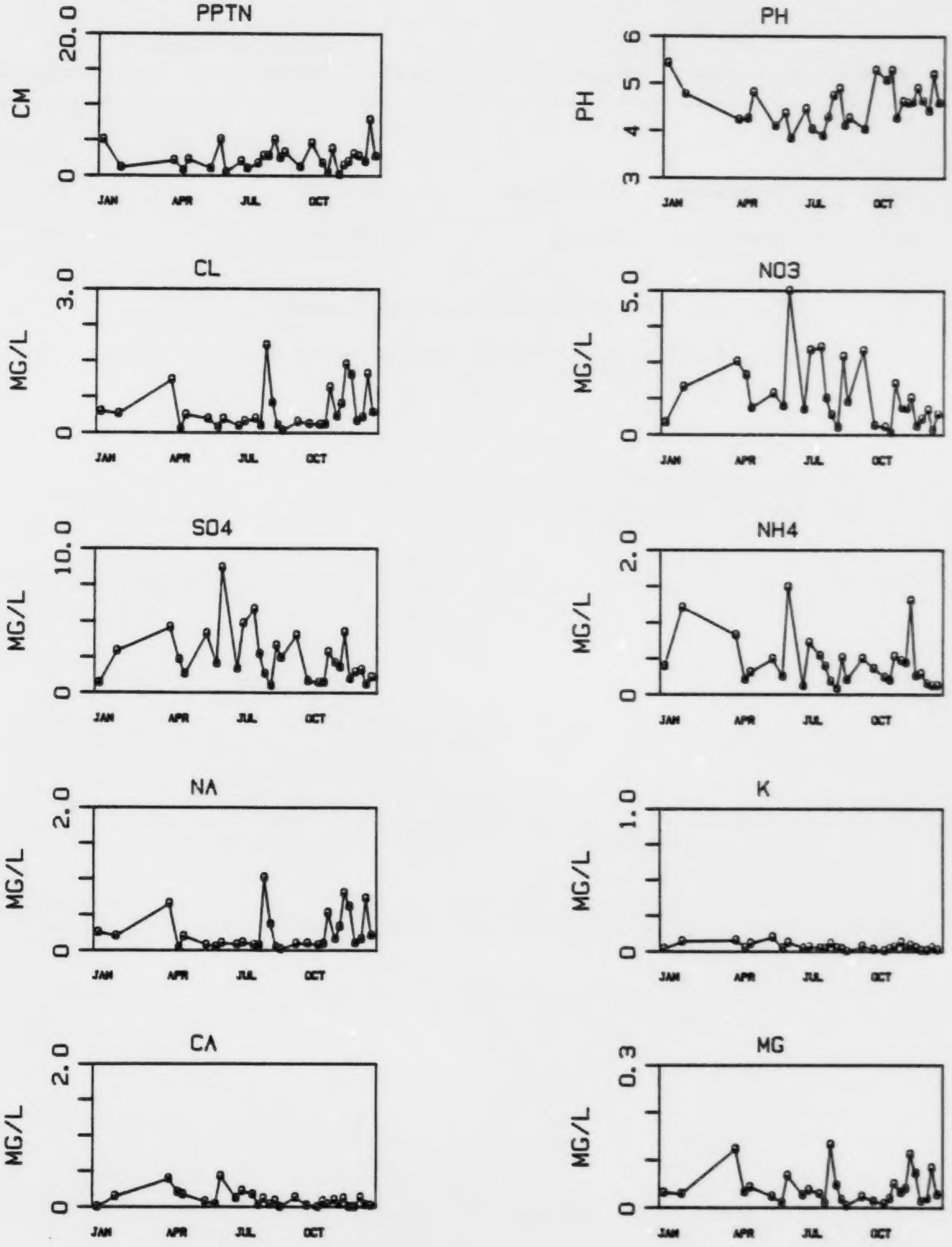
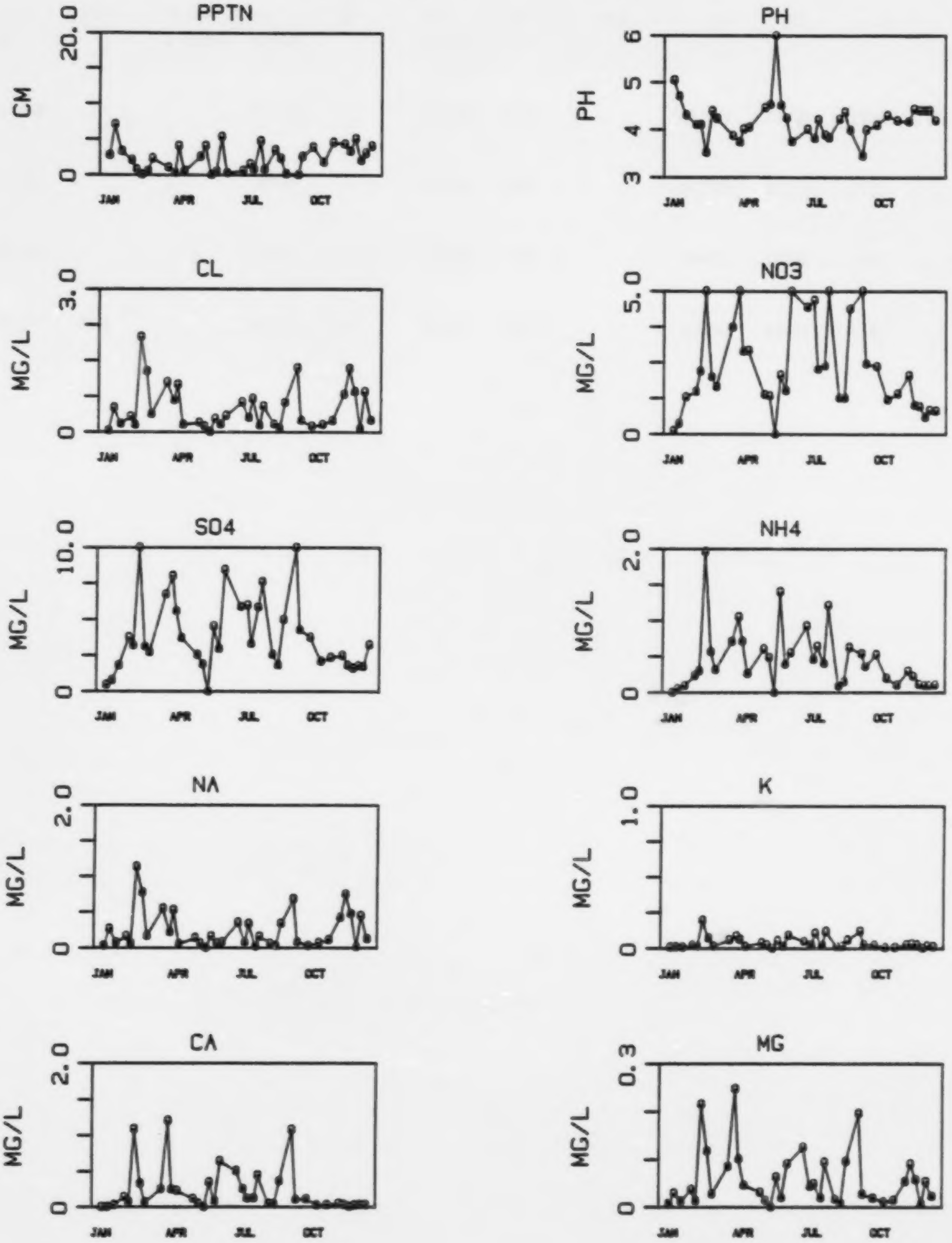


Figure 2-1 (continued_)
Site: DELUM
Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1597 | DEGEO | 860107 | | 815 | 860130 | 915 | 860210 | | | 3450.30 | 8.0 |
| 1615 | DEGEO | 860130 | | 915 | 860205 | 745 | 860219 | 2 | | 798.20 | 23.0 |
| 1808 | DEGEO | 860410 | | 800 | 860422 | 1200 | 860507 | | | 1465.80 | 33.2 |
| 1811 | DEGEO | 860422 | | 1200 | 860429 | 800 | 860508 | 3 | 0.30 | 442.40 | 25.7 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1597 | DEGEO | 860107 | 5.50 | | | 0.87 | 1.15 | 550.000 | 5.43 | 9.01 | 5.4 |
| 1615 | DEGEO | 860130 | 4.64 | 3 | | 0.95 | 1.06 | 550.000 | 4.77 | 23.54 | 18.4 |
| 1808 | DEGEO | 860410 | 4.24 | 3 | 33 | 1.03 | 1.04 | 550.000 | 4.23 | 62.97 | 38.4 |
| 1811 | DEGEO | 860422 | 4.48 | | | 1.05 | 1.05 | 225.000 | 4.26 | 60.53 | 26.1 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1597 | DEGEO | 860107 | 0.003 | 0.442 | -0.013 | 0.016 | -0.016 | 0.431 | 0.690 | 0.394 | 0.254 |
| | | | 0.170 | 12.462 | -0.280 | 0.170 | -0.201 | 6.940 | 7.174 | 21.836 | 11.028 |
| 1615 | DEGEO | 860130 | 0.011 | 0.392 | -0.008 | -0.017 | -0.048 | 1.653 | 2.933 | 1.205 | 0.202 |
| | | | 0.568 | 11.043 | -0.164 | -0.180 | -0.605 | 26.607 | 30.504 | 66.782 | 8.804 |
| 1808 | DEGEO | 860410 | 0.019 | 1.106 | -0.017 | -0.014 | -0.007 | 2.539 | 4.566 | 0.823 | 0.653 |
| | | | 1.020 | 31.195 | -0.360 | -0.143 | -0.084 | 40.878 | 47.487 | 45.567 | 28.387 |
| 1811 | DEGEO | 860422 | 0.020 | 0.092 | -0.017 | 0.020 | -0.007 | 2.053 | 2.336 | 0.210 | 0.039 |
| | | | 1.033 | 2.589 | -0.361 | 0.215 | -0.086 | 33.048 | 24.290 | 11.647 | 1.692 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1597 | DEGEO | 860107 | 0.021 | -0.041 | 0.031 |
| | | | 0.528 | -1.019 | 1.293 |
| 1615 | DEGEO | 860130 | 0.071 | 0.147 | 0.029 |
| | | | 1.828 | 3.679 | 1.201 |
| 1808 | DEGEO | 860410 | 0.078 | 0.392 | 0.123 |
| | | | 1.989 | 9.779 | 5.078 |
| 1811 | DEGEO | 860422 | 0.029 | 0.207 | 0.032 |
| | | | 0.748 | 5.156 | 1.326 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1905 | DEGEO | 860429 | | 815 | 860528 | 815 | 860617 | 3 | 0.90 | 1453.10 | 12.5 |
| 1906 | DEGEO | 860528 | | 815 | 860610 | 800 | 860617 | 1 | 0.40 | 520.00 | 41.6 |
| 1971 | DEGEO | 860610 | | 815 | 860617 | 800 | 860715 | 2 | 2.00 | 3110.40 | 18.5 |
| 1991 | DEGEO | 860707 | | 1100 | 860715 | 1100 | 860725 | 2 | 0.80 | 1318.50 | 18.2 |
| 2015 | DEGEO | 860624 | | 800 | 860707 | 1100 | 860730 | 1 | | 1846.20 | 55.5 |
| 2017 | DEGEO | 860715 | | 1040 | 860722 | 1230 | 860731 | 3 | 0.40 | 685.50 | 48.5 |
| 2023 | DEGEO | 860617 | | 800 | 860624 | 800 | 860804 | 3 | 0.20 | 474.70 | 71.1 |
| 2048 | DEGEO | 860729 | | 1300 | 860805 | 1400 | 860813 | 4 | 0.70 | 1077.60 | 58.6 |
| 2061 | DEGEO | 860805 | | 1400 | 860812 | 1440 | 860819 | 2 | 1.10 | 1842.40 | 21.8 |
| 2092 | DEGEO | 860812 | | 1440 | 860820 | 1300 | 860828 | 2 | 1.10 | 1780.30 | 16.6 |
| 2102 | DEGEO | 860820 | | 1300 | 860827 | 1040 | 860903 | 2 | 2.00 | 3106.40 | 7.0 |
| 2116 | DEGEO | 860827 | | 1040 | 860902 | 1345 | 860912 | 2 | 1.00 | 2042.80 | 39.5 |
| 2148 | DEGEO | 860902 | | 1345 | 860909 | 1135 | 860919 | 2 | 1.30 | 1794.20 | 26.0 |
| 2222 | DEGEO | 860922 | | 1055 | 860930 | 1100 | 861017 | 1 | 0.50 | 669.00 | 46.8 |
| 2247 | DEGEO | 861007 | | 1155 | 861021 | 1125 | 861028 | 2 | 1.80 | 2869.50 | 6.2 |
| 2277 | DEGEO | 861021 | | 1125 | 861028 | 1330 | 861104 | 2 | 0.70 | 1135.40 | 6.7 |
| 2308 | DEGEO | 861028 | | 1330 | 861103 | 1330 | 861121 | 1 | 0.20 | 240.20 | 5.1 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2329 | DEGEO | 861103 | | 1330 | 861112 | 1115 | 861125 | 5 | 1.50 | 2010.30 | 31.2 |
| 2330 | DEGEO | 861112 | | 1115 | 861118 | 1055 | 861125 | | | 107.90 | |
| 2356 | DEGEO | 861118 | | 1055 | 861124 | 1235 | 861202 | 3 | 0.60 | 1019.70 | 17.5 |
| 2382 | DEGEO | 861124 | | 1235 | 861201 | 1430 | 861211 | 1 | 0.80 | 1059.80 | 23.9 |
| 2399 | DEGEO | 861201 | | 1430 | 861208 | 1200 | 871217 | | | 2108.80 | 11.4 |
| 2420 | DEGEO | 861208 | | 1200 | 861211 | 1450 | 870105 | 3 | 1.10 | 1986.30 | 13.8 |
| 2444 | DEGEO | 861216 | | 1030 | 861222 | 1130 | 870106 | 3 | 0.80 | 1186.10 | 19.1 |
| 2495 | DEGEO | 861229 | | 1455 | 870106 | 1100 | 870116 | 3 | 1.10 | 790.90 | 13.5 |
| 2508 | DEGEO | 861222 | | 1130 | 861229 | 1455 | 870122 | 1 | 3.10 | 5372.50 | 8.8 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1905 | DEGEO | 860429 | 5.03 | 3 | 33 | 0.98 | 1.12 | 550.0 | 4.81 | 18.2 | 10.6 |
| 1906 | DEGEO | 860528 | 4.45 | 3 |  | 1.01 | 1.04 | 330.0 | 4.10 | 88.5 | 37.7 |
| 1971 | DEGEO | 860610 | 4.02 |  |  | 1.03 | 1.08 | 550.0 | 4.37 | 50.1 | 19.5 |
| 1991 | DEGEO | 860707 | 4.45 |  |  | 1.04 | 1.10 | 550.0 | 4.46 | 40.7 | 15.8 |
| 2015 | DEGEO | 860624 | 4.50 | 3 | 3334 | 0.98 | 1.03 | 550.0 | 4.48 | 37.6 | 60.5 |
| 2017 | DEGEO | 860715 | 4.07 | 3 |  | 1.03 | 1.01 | 500.0 | 4.03 | 102.6 | 48.0 |
| 2023 | DEGEO | 860617 | 3.99 | 3 |  | 1.05 | 0.98 | 300.0 | 3.84 | 154.4 | 80.0 |
| 2048 | DEGEO | 860729 | 4.01 |  |  | 1.04 | 1.03 | 525.0 | 3.89 | 139.6 | 59.3 |
| 2061 | DEGEO | 860805 | 4.29 |  |  | 1.03 | 1.14 | 475.0 | 4.29 | 59.2 | 22.6 |
| 2092 | DEGEO | 860812 | 4.71 |  |  | 1.01 | 1.12 | 550.0 | 4.74 | 23.8 | 15.4 |
| 2102 | DEGEO | 860820 | 5.10 |  |  | 0.83 | 1.42 | 550.0 | 4.89 | 18.6 | 5.9 |
| 2116 | DEGEO | 860827 | 4.13 | 3 |  | 1.04 | 1.14 | 550.0 | 4.11 | 82.1 | 33.7 |
| 2148 | DEGEO | 860902 | 4.20 |  |  | 1.09 | 1.09 | 550.0 | 4.27 | 58.5 | 22.8 |
| 2222 | DEGEO | 860922 | 3.90 | 3 |  | 1.04 | 1.06 | 460.0 | 4.03 | 102.7 | 43.0 |
| 2247 | DEGEO | 861007 | 5.40 | 3 |  | 0.92 | 1.20 | 550.0 | 5.28 | 11.5 | 4.9 |
| 2277 | DEGEO | 861021 | 5.20 |  |  | 1.02 | 1.45 | 550.0 | 5.07 | 13.2 | 4.3 |
| 2308 | DEGEO | 861028 | 5.71 | 3 |  | 0.88 | 1.18 | 110.0 | 5.28 | 12.2 | 4.2 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN ueqiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2329 | DEGEO | 861103 | 4.25 | 3 |  | 1.04 | 1.04 | 550.0 | 4.27 | 59.2 | 29.9 |
| 2330 | DEGEO | 861112 |  |  |  | 1.06 | 1.10 | 42.0 | 4.62 |  | 15.0 |
| 2356 | DEGEO | 861118 | 4.63 | 3 |  | 1.04 | 1.08 | 550.0 | 4.59 | 31.7 | 16.0 |
| 2382 | DEGEO | 861124 | 4.74 | 3 |  | 1.02 | 1.08 | 550.0 | 4.61 | 30.8 | 26.2 |
| 2399 | DEGEO | 861201 | 4.95 |  |  | 1.03 | 1.14 | 550.0 | 4.90 | 18.7 | 10.4 |
| 2420 | DEGEO | 861208 | 4.55 |  |  | 1.13 | 1.16 | 550.0 | 4.63 | 28.3 | 11.5 |
| 2444 | DEGEO | 861216 | 4.65 | 3 |  | 1.01 | 1.16 | 550.0 | 4.42 | 42.9 | 16.6 |
| 2495 | DEGEO | 861229 | 4.69 |  |  | 1.10 | 1.12 | 550.0 | 4.59 | 31.1 | 12.2 |
| 2508 | DEGEO | 861222 | 5.39 | 3 |  | 0.95 | 1.10 | 550.0 | 5.19 | 11.2 | 7.9 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1905 | DEGEO | 860429 | 0.014 | 0.368 | -0.008 | -0.026 | -0.013 | 0.923 | 1.332 | 0.313 | 0.196 |
| | | | 0.725 | 10.391 | -0.181 | -0.268 | -0.157 | 14.856 | 13.850 | 17.322 | 8.507 |
| 1906 | DEGEO | 860528 | 0.022 | 0.287 | -0.009 | -0.026 | 0.036 | 1.434 | 4.126 | 0.492 | 0.076 |
| | | | 1.175 | 8.082 | -0.186 | -0.274 | 0.446 | 23.089 | 42.915 | 27.271 | 3.314 |
| 1971 | DEGEO | 860610 | 0.016 | 0.117 | -0.006 | 0.036 | -0.014 | 0.985 | 2.046 | 0.253 | 0.054 |
| | | | 0.835 | 3.312 | -0.121 | 0.378 | -0.179 | 15.862 | 21.281 | 14.002 | 2.362 |
| 1991 | DEGEO | 860707 | 0.018 | 0.139 | -0.003 | 0.049 | -0.017 | 0.875 | 1.696 | 0.121 | 0.081 |
| | | | 0.946 | 3.922 | -0.062 | 0.513 | -0.215 | 14.084 | 17.636 | 6.716 | 3.529 |
| 2015 | DEGEO | 860624 | 0.041 | 1.687 | -0.004 | 0.029 | -0.007 | 7.113 | 9.901 | 3.461 | 1.371 |
| | | | 2.146 | 47.575 | -0.080 | 0.308 | -0.083 | 114.515 | 102.975 | 191.741 | 59.650 |
| 2017 | DEGEO | 860715 | 0.028 | 0.243 | -0.004 | 0.045 | -0.006 | 2.926 | 4.832 | 0.721 | 0.112 |
| | | | 1.455 | 6.849 | -0.095 | 0.469 | -0.080 | 47.104 | 50.249 | 39.968 | 4.872 |
| 2023 | DEGEO | 860617 | 0.042 | 0.283 | -0.007 | 0.027 | -0.005 | 5.007 | 8.678 | 1.487 | 0.102 |
| | | | 2.232 | 7.992 | -0.153 | 0.284 | -0.069 | 80.616 | 90.247 | 82.374 | 4.450 |
| 2048 | DEGEO | 860729 | 0.030 | 0.296 | -0.019 | -0.061 | -0.012 | 3.028 | 5.813 | 0.538 | 0.077 |
| | | | 1.576 | 8.342 | -0.412 | -0.637 | -0.151 | 48.753 | 60.454 | 29.827 | 3.345 |
| 2061 | DEGEO | 860805 | -0.001 | 0.148 | -0.009 | -0.059 | -0.014 | 1.256 | 2.703 | 0.394 | 0.071 |
| | | | -0.044 | 4.167 | -0.198 | -0.615 | -0.176 | 20.217 | 28.108 | 21.848 | 3.098 |
| 2092 | DEGEO | 860812 | 0.015 | 1.828 | -0.004 | -0.023 | -0.019 | 0.688 | 1.341 | 0.183 | 1.013 |
| | | | 0.793 | 51.561 | -0.094 | -0.243 | -0.237 | 11.072 | 13.944 | 10.130 | 44.050 |
| 2102 | DEGEO | 860820 | 0.005 | 0.623 | -0.005 | 0.021 | -0.016 | 0.252 | 0.483 | 0.080 | 0.365 |
| | | | 0.238 | 17.561 | -0.106 | 0.218 | -0.199 | 4.058 | 5.018 | 4.437 | 15.865 |
| 2116 | DEGEO | 860827 | 0.019 | 0.159 | -0.018 | -0.138 | -0.100 | 2.704 | 3.312 | 0.510 | 0.045 |
| | | | 1.000 | 4.473 | -0.395 | -1.447 | -1.253 | 43.541 | 34.443 | 28.246 | 1.963 |
| 2148 | DEGEO | 860902 | 0.007 | 0.047 | -0.009 | 0.030 | -0.029 | 1.134 | 2.450 | 0.209 | 0.016 |
| | | | 0.381 | 1.315 | -0.201 | 0.320 | -0.362 | 18.253 | 25.480 | 11.583 | 0.684 |
| 2222 | DEGEO | 860922 | 0.020 | 0.235 | 0.000 | 0.025 | 0.000 | 2.904 | 4.007 | 0.502 | 0.093 |
| | | | 1.042 | 6.639 | 0.000 | 0.266 | 0.000 | 46.756 | 41.676 | 27.814 | 4.025 |
| 2247 | DEGEO | 861007 | 0.003 | 0.186 | 0.000 | 0.038 | 0.000 | 0.322 | 0.841 | 0.362 | 0.097 |
| | | | 0.157 | 5.250 | 0.000 | 0.394 | 0.000 | 5.187 | 8.751 | 20.036 | 4.233 |
| 2277 | DEGEO | 861021 | -0.008 | 0.172 | -0.010 | 0.078 | -0.048 | 0.270 | 0.710 | 0.242 | 0.074 |
| | | | -0.446 | 4.857 | -0.220 | 0.816 | -0.595 | 4.353 | 7.380 | 13.391 | 3.225 |
| 2308 | DEGEO | 861028 | 0.010 | 0.186 | -0.017 | 0.036 | -0.046 | 0.072 | 0.738 | 0.200 | 0.098 |
| | | | 0.548 | 5.230 | -0.374 | 0.383 | -0.582 | 1.152 | 7.671 | 11.091 | 4.241 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

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  ID       STN      BD          F         CL        NO2        PO4         BR        NO3        SO4        NH4         NA
                            ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml
                         umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l

 2329     DEGEO    861103    -0.001      0.948     -0.002      0.053     -0.031      1.767      2.860      0.530      0.523
                             -0.057     26.725     -0.039      0.552     -0.388     28.456     29.743     29.388     22.744

 2330     DEGEO    861112    -0.002      0.345     -0.014      0.048     -0.010      0.927      2.113      0.471      0.162
                             -0.091      9.732     -0.303      0.504     -0.122     14.927     21.976     26.096      7.032

 2356     DEGEO    861118    -0.003      0.615      0.035      0.082     -0.013      0.906      1.804      0.441      0.335
                             -0.154     17.349      0.762      0.858     -0.159     14.592     18.764     24.440     14.589

 2382     DEGEO    861124     0.013      1.429     -0.002      0.052     -0.031      1.273      4.230      1.301      0.799
                              0.676     40.299     -0.046      0.542     -0.391     20.498     43.991     72.086     34.769

 2399     DEGEO    861201    -0.004      1.211     -0.005      0.072     -0.036      0.301      0.995      0.260      0.612
                             -0.226     34.142     -0.110      0.753     -0.446      4.847     10.350     14.419     26.632

 2420     DEGEO    861208    -0.004      0.250     -0.007      0.091      0.127      0.551      1.475      0.290      0.102
                             -0.235      7.061     -0.160      0.955      1.594      8.866     15.345     16.070      4.430

 2444     DEGEO    861216    -0.006      0.342     -0.010      0.092      0.146      0.864      1.636      0.150      0.163
                             -0.328      9.636     -0.220      0.966      1.829     13.912     17.018      8.317      7.077

 2495     DEGEO    861229    -0.005      0.435     -0.009      0.017      0.152      0.712      1.126      0.127      0.213
                             -0.267     12.258     -0.188      0.182      1.903     11.463     11.715      7.050      9.256

 2508     DEGEO    861222    -0.002      1.232     -0.044      0.033     -0.010      0.177      0.603      0.125      0.725
                             -0.121     34.735     -0.955      0.351     -0.128      2.857      6.271      6.928     31.522
```

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1905 | DEGEO | 860429 | 0.057 | 0.173 | 0.043 |
|  |  |  | 1.452 | 4.317 | 1.762 |
| 1906 | DEGEO | 860528 | 0.100 | 0.072 | 0.023 |
|  |  |  | 2.558 | 1.807 | 0.954 |
| 1971 | DEGEO | 860610 | 0.023 | 0.041 | 0.011 |
|  |  |  | 0.587 | 1.023 | 0.435 |
| 1991 | DEGEO | 860707 | 0.024 | 0.122 | 0.026 |
|  |  |  | 0.610 | 3.035 | 1.082 |
| 2015 | DEGEO | 860624 | 0.306 | 1.086 | 0.394 |
|  |  |  | 7.822 | 27.094 | 16.192 |
| 2017 | DEGEO | 860715 | 0.033 | 0.223 | 0.037 |
|  |  |  | 0.848 | 5.568 | 1.512 |
| 2023 | DEGEO | 860617 | 0.063 | 0.427 | 0.067 |
|  |  |  | 1.599 | 10.649 | 2.763 |
| 2048 | DEGEO | 860729 | 0.021 | 0.170 | 0.028 |
|  |  |  | 0.535 | 4.239 | 1.167 |
| 2061 | DEGEO | 860805 | 0.019 | 0.027 | 0.010 |
|  |  |  | 0.497 | 0.679 | 0.414 |
| 2092 | DEGEO | 860812 | 0.055 | 0.118 | 0.132 |
|  |  |  | 1.418 | 2.936 | 5.439 |
| 2102 | DEGEO | 860820 | 0.024 | 0.031 | 0.047 |
|  |  |  | 0.612 | 0.785 | 1.930 |
| 2116 | DEGEO | 860827 | 0.018 | 0.087 | 0.017 |
|  |  |  | 0.451 | 2.159 | 0.688 |
| 2148 | DEGEO | 860902 | -0.004 | 0.000 | 0.004 |
|  |  |  | -0.106 | 0.002 | 0.162 |
| 2222 | DEGEO | 860922 | 0.035 | 0.132 | 0.023 |
|  |  |  | 0.887 | 3.302 | 0.957 |
| 2247 | DEGEO | 861007 | 0.013 | 0.020 | 0.013 |
|  |  |  | 0.332 | 0.493 | 0.546 |
| 2277 | DEGEO | 861021 | 0.004 | 0.002 | 0.008 |
|  |  |  | 0.097 | 0.041 | 0.330 |
| 2308 | DEGEO | 861028 | 0.021 | 0.082 | 0.019 |
|  |  |  | 0.544 | 2.049 | 0.791 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2329 | DEGEO | 861103 | 0.031 | 0.038 | 0.050 |
| | | | 0.786 | 0.940 | 2.044 |
| 2330 | DEGEO | 861112 | 0.063 | 0.099 | 0.032 |
| | | | 1.622 | 2.477 | 1.303 |
| 2356 | DEGEO | 861118 | 0.020 | 0.035 | 0.041 |
| | | | 0.502 | 0.881 | 1.681 |
| 2382 | DEGEO | 861124 | 0.045 | 0.122 | 0.111 |
| | | | 1.163 | 3.039 | 4.587 |
| 2399 | DEGEO | 861201 | 0.027 | 0.001 | 0.072 |
| | | | 0.694 | 0.014 | 2.973 |
| 2420 | DEGEO | 861208 | 0.008 | -0.016 | 0.013 |
| | | | 0.195 | -0.411 | 0.554 |
| 2444 | DEGEO | 861216 | 0.009 | 0.132 | 0.020 |
| | | | 0.221 | 3.299 | 0.820 |
| 2495 | DEGEO | 861229 | 0.012 | 0.018 | 0.028 |
| | | | 0.318 | 0.439 | 1.146 |
| 2508 | DEGEO | 861222 | 0.028 | 0.030 | 0.083 |
| | | | 0.705 | 0.741 | 3.433 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1557 | DELUM | 860114 |  | 1300 | 860121 | 1615 | 860128 | 3 | 1.10 | 1910.10 | 43.0 |
| 1596 | DELUM | 860121 | 1 | 1615 | 860130 | 1300 | 860210 | 3 | 2.80 | 3641.20 | 10.0 |
| 1616 | DELUM | 860130 | 1 | 1300 | 860212 | 1545 | 860219 | 2 | 1.30 | 2403.70 | 23.5 |
| 1638 | DELUM | 860212 | 2 | 1545 | 860218 | 1215 | 860227 | 4 |  | 1392.30 | 34.4 |
| 1654 | DELUM | 860218 | 2 | 1215 | 860225 | 1430 | 860304 | 2 | 0.30 | 2251.60 | 40.0 |
| 1688 | DELUM | 860225 |  | 1430 | 860305 | 1145 | 860319 | 1 |  | 10.10 |  |
| 1693 | DELUM | 860305 |  | 1145 | 860311 | 1120 | 860321 | 1 | 0.20 | 289.40 | 33.0 |
| 1731 | DELUM | 860311 |  | 1130 | 860318 | 1130 | 860409 | 4 | 0.90 | 984.70 | 28.0 |
| 1755 | DELUM | 860401 |  |  | 860408 | 1141 | 860416 |  |  | 685.40 | 68.8 |
| 1777 | DELUM | 860410 |  | 1208 | 860414 | 1144 | 860425 | 3 | 0.10 | 107.90 |  |
| 1784 | DELUM | 860415 |  | 1058 | 860422 | 1206 | 860429 | 5 | 1.60 | 2915.30 | 46.3 |
| 1812 | DELUM | 860422 |  | 1206 | 860429 | 1044 | 860508 | 2 | 0.20 | 358.60 | 42.2 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1557 | DELUM | 860114 | 5.07 | 3 |  | 1.27 | 1.34 | 550.000 | 5.04 | 13.90 | 3.2 |
| 1596 | DELUM | 860121 | 4.69 |  |  | 1.00 | 1.13 | 550.000 | 4.70 | 25.73 | 9.4 |
| 1616 | DELUM | 860130 | 4.18 | 3 |  | 1.06 | 1.03 | 450.000 | 4.30 | 56.64 | 22.3 |
| 1638 | DELUM | 860212 | 4.10 |  |  | 1.03 | 1.04 | 480.000 | 4.10 | 86.05 | 36.7 |
| 1654 | DELUM | 860218 | 4.05 | 3 | 21 | 1.04 | 1.04 | 500.000 | 4.10 | 84.73 | 35.8 |
| 1688 | DELUM | 860225 |  |  |  | 1.10 | 0.94 | 6.000 | 3.52 |  | 172.8 |
| 1693 | DELUM | 860305 | 4.40 | 3 |  | 1.02 | 1.03 | 130.000 | 4.39 | 47.81 | 29.1 |
| 1731 | DELUM | 860311 | 4.12 | 3 |  | 1.06 | 1.10 | 550.000 | 4.23 | 61.80 | 27.0 |
| 1755 | DELUM | 860401 | 3.91 | 3 |  | 1.06 | 0.99 | 525.000 | 3.87 | 149.82 | 70.3 |
| 1777 | DELUM | 860410 |  | 3 |  | 1.08 | 0.99 | 100.000 | 3.74 | 193.03 | 100.6 |
| 1784 | DELUM | 860415 | 4.24 |  | 33 | 1.06 | 1.03 | 550.000 | 4.01 | 102.72 | 52.3 |
| 1812 | DELUM | 860422 | 4.35 | 3 |  | 1.07 | 1.01 | 230.000 | 4.05 | 96.50 | 42.5 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1557 | DELUM | 860114 | 0.010 | 0.033 | -0.031 | 0.037 | -0.022 | 0.108 | 0.469 | -0.006 | 0.029 |
| | | | 0.540 | 0.924 | -0.676 | 0.386 | -0.270 | 1.735 | 4.882 | -0.321 | 1.277 |
| 1596 | DELUM | 860121 | 0.003 | 0.510 | -0.009 | -0.010 | -0.048 | 0.372 | 0.776 | 0.054 | 0.260 |
| | | | 0.166 | 14.394 | -0.198 | -0.103 | -0.602 | 5.987 | 8.070 | 2.967 | 11.299 |
| 1616 | DELUM | 860130 | 0.006 | 0.171 | -0.008 | -0.017 | 0.085 | 1.288 | 1.813 | 0.095 | 0.074 |
| | | | 0.306 | 4.810 | -0.165 | -0.184 | 1.058 | 20.739 | 18.856 | 5.248 | 3.229 |
| 1638 | DELUM | 860212 | 0.013 | 0.327 | -0.013 | -0.022 | 0.066 | 1.485 | 3.752 | 0.238 | 0.162 |
| | | | 0.679 | 9.224 | -0.272 | -0.227 | 0.821 | 23.916 | 39.024 | 13.182 | 7.044 |
| 1654 | DELUM | 860218 | 0.016 | 0.152 | 0.019 | -0.049 | 0.049 | 2.190 | 3.195 | 0.307 | 0.061 |
| | | | 0.847 | 4.281 | 0.407 | -0.512 | 0.610 | 35.257 | 33.228 | 17.029 | 2.665 |
| 1688 | DELUM | 860225 | 0.204 | 1.995 | -0.012 | -0.504 | 1.615 | 15.449 | 12.011 | 1.956 | 1.131 |
| | | | 10.723 | 56.258 | -0.267 | -5.292 | 20.225 | 248.723 | 124.912 | 108.352 | 49.213 |
| 1693 | DELUM | 860305 | 0.035 | 1.272 | -0.012 | -0.041 | 0.098 | 1.987 | 3.118 | 0.567 | 0.770 |
| | | | 1.853 | 35.866 | -0.252 | -0.435 | 1.226 | 31.988 | 32.424 | 31.431 | 33.480 |
| 1731 | DELUM | 860311 | 0.012 | 0.381 | -0.015 | -0.025 | -0.043 | 1.644 | 2.714 | 0.318 | 0.167 |
| | | | 0.658 | 10.749 | -0.321 | -0.263 | -0.544 | 26.468 | 28.229 | 17.629 | 7.277 |
| 1755 | DELUM | 860401 | 0.022 | 1.040 | -0.016 | -0.032 | -0.047 | 3.733 | 6.734 | 0.710 | 0.548 |
| | | | 1.162 | 29.321 | -0.346 | -0.336 | -0.585 | 60.108 | 70.031 | 39.359 | 23.827 |
| 1777 | DELUM | 860410 | 0.060 | 0.668 | -0.054 | -0.018 | -0.026 | 10.436 | 8.004 | 1.049 | 0.217 |
| | | | 3.154 | 18.831 | -1.177 | -0.191 | -0.321 | 168.019 | 83.243 | 58.118 | 9.448 |
| 1784 | DELUM | 860415 | 0.034 | 0.990 | -0.007 | 0.014 | -0.009 | 2.897 | 5.560 | 0.711 | 0.526 |
| | | | 1.774 | 27.927 | -0.148 | 0.152 | -0.117 | 46.638 | 57.822 | 39.397 | 22.867 |
| 1812 | DELUM | 860422 | 0.021 | 0.157 | -0.017 | 0.016 | -0.007 | 2.913 | 3.702 | 0.266 | 0.055 |
| | | | 1.117 | 4.418 | -0.362 | 0.173 | -0.086 | 46.892 | 38.497 | 14.752 | 2.395 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1557 | DELUM | 860114 | 0.009 | -0.051 | 0.007 |
|  |  |  | 0.228 | -1.268 | 0.308 |
| 1596 | DELUM | 860121 | 0.010 | -0.040 | 0.030 |
|  |  |  | 0.249 | -1.010 | 1.223 |
| 1616 | DELUM | 860130 | 0.008 | 0.031 | 0.012 |
|  |  |  | 0.208 | 0.768 | 0.503 |
| 1638 | DELUM | 860212 | 0.023 | 0.140 | 0.037 |
|  |  |  | 0.577 | 3.499 | 1.532 |
| 1654 | DELUM | 860218 | 0.016 | 0.075 | 0.013 |
|  |  |  | 0.412 | 1.863 | 0.540 |
| 1680 | DELUM | 860225 | 0.194 | 1.088 | 0.215 |
|  |  |  | 4.950 | 27.140 | 8.860 |
| 1693 | DELUM | 860305 | 0.070 | 0.329 | 0.118 |
|  |  |  | 1.792 | 8.196 | 4.837 |
| 1731 | DELUM | 860311 | 0.016 | 0.065 | 0.028 |
|  |  |  | 0.415 | 1.626 | 1.152 |
| 1755 | DELUM | 860401 | 0.058 | 0.255 | 0.086 |
|  |  |  | 1.489 | 6.363 | 3.554 |
| 1777 | DELUM | 860410 | 0.086 | 1.206 | 0.247 |
|  |  |  | 2.198 | 30.090 | 10.174 |
| 1784 | DELUM | 860415 | 0.062 | 0.252 | 0.101 |
|  |  |  | 1.575 | 6.279 | 4.160 |
| 1812 | DELUM | 860422 | 0.015 | 0.227 | 0.046 |
|  |  |  | 0.373 | 5.673 | 1.902 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1901 | DELUM | 860527 | | 1300 | 860603 | 1130 | 860613 | | | 5.20 | |
| 1907 | DELUM | 860513 | | 1133 | 860520 | 1050 | 860617 | 2 | 1.00 | 1681.10 | 19.8 |
| 1908 | DELUM | 860603 | | 1130 | 860610 | 1415 | 860617 | 2 | 0.20 | | 28.1 |
| 1928 | DELUM | 860520 | | 1050 | 860527 | 1300 | 860624 | 4 | 1.60 | 2653.80 | 17.7 |
| 1992 | DELUM | 860708 | | 1120 | 860715 | 1115 | 860725 | 1 | | 405.40 | 52.5 |
| 2016 | DELUM | 860610 | | 1415 | 860617 | 1350 | 860730 | 6 | 2.10 | 3821.20 | 30.9 |
| 2027 | DELUM | 860617 | | 1350 | 860624 | 1600 | 860807 | 2 | 0.10 | 112.10 | |
| 2049 | DELUM | 860717 | | 1110 | 860722 | 1015 | 860813 | 3 | 0.60 | 1432.50 | 73.1 |
| 2050 | DELUM | 860722 | | 1015 | 860731 | 1130 | 860813 | 2 | 0.30 | 479.00 | 35.0 |
| 2051 | DELUM | 860731 | | 1130 | 860805 | 1145 | 860813 | | | 3212.60 | 59.7 |
| 2062 | DELUM | 860805 | | 1145 | 860812 | 1135 | 860819 | 4 | 0.30 | 277.10 | 71.0 |
| 2110 | DELUM | 860819 | | 1045 | 860826 | 1145 | 860904 | 4 | | 2361.40 | 23.9 |
| 2117 | DELUM | 860826 | | 1145 | 860902 | 1145 | 860912 | 2 | 0.90 | 1496.60 | 19.8 |
| 2131 | DELUM | 860902 | | 1145 | | | 860916 | 1 | | 99.10 | |
| 2206 | DELUM | 860918 | | 1110 | 860923 | 1412 | 861008 | 1 | | 16.80 | |
| 2248 | DELUM | 861007 | | 1110 | 861014 | 1200 | 861028 | 1 | | 2638.30 | 38.1 |
| 2251 | DELUM | 860923 | | 1412 | 860930 | 1130 | 861029 | 4 | 1.00 | 1735.80 | 45.8 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2282 | DELUM | 861021 | | 1100 | 861028 | 1150 | 861105 | 2 | 0.70 | 1182.20 | 25.0 |
| 2343 | DELUM | 861103 | | 1255 | 861110 | 1330 | 861129 | 4 | 1.80 | 1489.60 | 29.1 |
| 2357 | DELUM | 861118 | | 1410 | 861125 | 1230 | 861202 | 3 | 1.70 | 2730.50 | 37.1 |
| 2383 | DELUM | 861125 | | 1230 | 861202 | 1110 | 861211 | 2 | 1.30 | 2203.90 | 23.9 |
| 2400 | DELUM | 861202 | | 1110 | 861209 | 1245 | 861217 | 3 | 2.00 | 3613.00 | 21.8 |
| 2421 | DELUM | 861209 | | 1245 | 861215 | 1150 | 870105 | 4 | 0.80 | 1414.90 | 19.1 |
| 2445 | DELUM | 861215 | | 1150 | 861223 | 1130 | 870106 | 1 | 1.20 | 1876.20 | 21.2 |
| 2482 | DELUM | 861223 | | 1130 | 861230 | 1300 | 870414 | 1 | 1.60 | 3654.10 | 29.9 |
| 2507 | DELUM | 861230 | | 1300 | 870106 | 1210 | 870122 | 3 | 1.30 | 2389.10 | 17.7 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1901 | DELUM | 860527 | | | | 9999.00 | 9999.00 | 5.0 | 6.81 | | |
| 1907 | DELUM | 860513 | 4.50 | | | 0.98 | 1.07 | 550.0 | 4.46 | 39.8 | 20.2 |
| 1908 | DELUM | 860603 | 4.64 | | | 0.99 | 1.04 | 150.0 | 4.51 | 37.2 | 27.4 |
| 1928 | DELUM | 860520 | 4.45 | | | 1.03 | 1.04 | 550.0 | 4.54 | 34.3 | 16.6 |
| 1992 | DELUM | 860708 | 4.01 | 3 | | 1.13 | 1.05 | 290.0 | 4.01 | 107.4 | 54.7 |
| 2016 | DELUM | 860610 | 4.23 | | | 1.06 | 1.02 | 550.0 | 4.24 | 66.0 | 28.6 |
| 2027 | DELUM | 860617 | | 3 | | 1.09 | 0.99 | 110.0 | 3.75 | 187.8 | 88.2 |
| 2049 | DELUM | 860717 | 4.02 | 3 | | 1.07 | 0.97 | 550.0 | 3.82 | 166.6 | 73.6 |
| 2050 | DELUM | 860722 | 4.38 | | | 1.03 | 1.03 | 330.0 | 4.21 | 70.9 | 34.2 |
| 2051 | DELUM | 860731 | 4.07 | | | 1.04 | 1.00 | 550.0 | 3.89 | 138.7 | 59.3 |
| 2062 | DELUM | 860805 | 3.90 | 3 | | 1.04 | 1.06 | 175.0 | 3.83 | 161.0 | 74.0 |
| 2110 | DELUM | 860819 | 4.20 | | | 1.10 | 1.23 | 550.0 | 4.22 | 62.8 | 22.4 |
| 2117 | DELUM | 860826 | 4.45 | | | 1.10 | 1.20 | 550.0 | 4.37 | 46.5 | 16.8 |
| 2131 | DELUM | 860902 | | 3 | | 1.09 | 1.00 | 99.0 | 3.99 | 114.5 | 55.0 |
| 2206 | DELUM | 860918 | | | | 1.11 | 1.10 | 15.0 | 3.45 | | 156.3 |
| 2248 | DELUM | 861007 | 3.97 | | 21 | 1.03 | 1.07 | 550.0 | 4.10 | 91.3 | 36.7 |
| 2251 | DELUM | 860923 | 3.90 | 3 | | 1.05 | 1.05 | 550.0 | 4.00 | 110.7 | 44.9 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2282 | DELUM | 861021 | 4.33 | | | 1.03 | 1.09 | 550.0 | 4.30 | 57.5 | 21.6 |
| 2343 | DELUM | 861103 | 4.35 | | | 1.05 | 1.09 | 550.0 | 4.19 | 68.8 | 26.3 |
| 2357 | DELUM | 861118 | 4.13 | | | 1.01 | 1.06 | 550.0 | 4.17 | 76.1 | 32.4 |
| 2383 | DELUM | 861125 | 4.44 | | | 1.00 | 1.09 | 550.0 | 4.43 | 39.7 | 21.0 |
| 2400 | DELUM | 861202 | 3.94 | | | 1.07 | 1.06 | 550.0 | 4.40 | 45.7 | 20.0 |
| 2421 | DELUM | 861209 | 4.58 | | | 1.13 | 1.14 | 550.0 | 4.40 | 44.7 | 16.1 |
| 2445 | DELUM | 861215 | 4.52 | | | 1.03 | 1.08 | 550.0 | 4.40 | 44.5 | 19.6 |
| 2482 | DELUM | 861223 | 4.36 | 3 | | 1.13 | 1.07 | 550.0 | 4.19 | 71.4 | 28.3 |
| 2507 | DELUM | 861230 | 3.37 | | 34 | 1.01 | 1.06 | 540.0 | 4.37 | 48.5 | 18.5 |

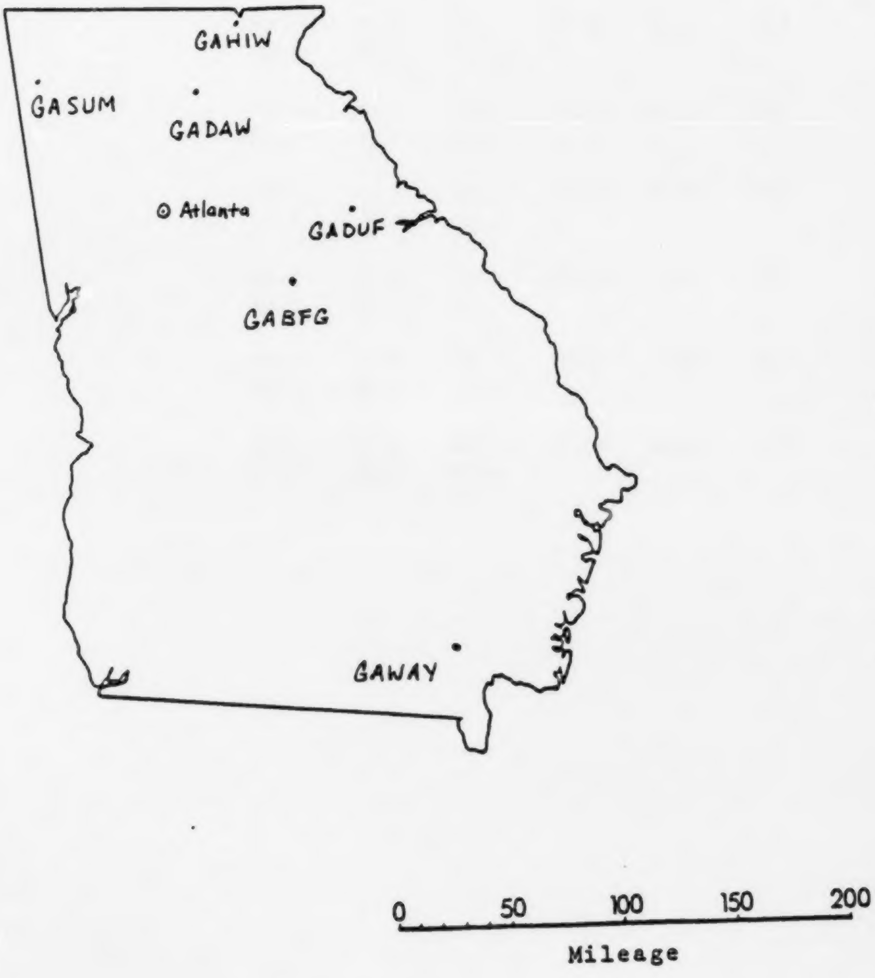
| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1901 | DELUM | 860527 | | | | | | | | | |
| 1907 | DELUM | 860513 | 0.018 | 0.199 | -0.009 | -0.028 | -0.012 | 1.372 | 2.521 | 0.602 | 0.138 |
| | | | 0.969 | 5.602 | -0.200 | -0.291 | -0.154 | 22.093 | 26.214 | 33.377 | 6.001 |
| 1908 | DELUM | 860603 | 0.036 | 0.282 | -0.009 | -0.028 | -0.012 | 2.056 | 4.518 | 1.399 | 0.160 |
| | | | 1.916 | 7.948 | -0.204 | -0.296 | -0.154 | 33.109 | 46.984 | 77.531 | 6.959 |
| 1928 | DELUM | 860520 | 0.007 | 0.110 | -0.013 | 0.011 | -0.017 | 1.332 | 1.874 | 0.485 | 0.067 |
| | | | 0.380 | 3.315 | -0.282 | 0.116 | -0.216 | 21.441 | 19.492 | 26.885 | 2.898 |
| 1992 | DELUM | 860708 | 0.058 | 0.626 | -0.003 | 0.395 | -0.017 | 4.431 | 5.875 | 0.927 | 0.349 |
| | | | 3.060 | 17.650 | -0.060 | 4.152 | -0.211 | 71.346 | 61.099 | 51.350 | 15.199 |
| 2016 | DELUM | 860610 | 0.014 | 0.161 | -0.004 | 0.059 | -0.007 | 1.520 | 2.952 | 0.394 | 0.065 |
| | | | 0.742 | 4.529 | -0.087 | 0.617 | -0.082 | 24.466 | 30.705 | 21.824 | 2.848 |
| 2027 | DELUM | 860617 | 0.059 | 0.346 | -0.009 | 0.028 | -0.005 | 5.230 | 8.432 | 0.549 | 0.079 |
| | | | 3.100 | 9.760 | -0.190 | 0.296 | -0.061 | 84.197 | 87.695 | 30.425 | 3.438 |
| 2049 | DELUM | 860717 | 0.034 | 0.306 | -0.019 | -0.061 | -0.012 | 4.682 | 5.987 | 0.462 | 0.079 |
| | | | 1.799 | 8.633 | -0.402 | -0.642 | -0.149 | 75.374 | 62.268 | 25.595 | 3.416 |
| 2050 | DELUM | 860722 | 0.049 | 0.700 | -0.018 | -0.062 | -0.012 | 2.266 | 3.310 | 0.645 | 0.332 |
| | | | 2.599 | 19.752 | -0.393 | -0.648 | -0.148 | 36.478 | 34.426 | 35.739 | 14.424 |
| 2051 | DELUM | 860731 | 0.023 | 0.143 | -0.017 | -0.063 | -0.012 | 2.389 | 5.853 | 0.406 | 0.023 |
| | | | 1.232 | 4.024 | -0.373 | -0.659 | -0.146 | 38.465 | 60.876 | 22.504 | 1.006 |
| 2062 | DELUM | 860805 | 0.055 | 0.541 | -0.009 | -0.058 | -0.014 | 5.420 | 7.619 | 1.208 | 0.159 |
| | | | 2.917 | 15.248 | -0.194 | -0.604 | -0.180 | 87.265 | 79.233 | 66.916 | 6.917 |
| 2110 | DELUM | 860819 | 0.008 | 0.166 | -0.015 | -0.091 | -0.073 | 1.261 | 2.550 | 0.087 | 0.062 |
| | | | 0.411 | 4.695 | -0.324 | -0.960 | -0.908 | 20.297 | 26.519 | 4.798 | 2.709 |
| 2117 | DELUM | 860826 | 0.009 | 0.072 | -0.019 | -0.144 | -0.104 | 1.258 | 1.822 | 0.151 | 0.030 |
| | | | 0.448 | 2.033 | -0.404 | -1.508 | -1.297 | 20.252 | 18.949 | 8.340 | 1.301 |
| 2131 | DELUM | 860902 | 0.042 | 0.621 | -0.024 | 0.049 | -0.004 | 4.375 | 4.983 | 0.626 | 0.340 |
| | | | 2.197 | 17.522 | -0.523 | 0.510 | -0.051 | 70.445 | 51.823 | 34.669 | 14.781 |
| 2206 | DELUM | 860918 | 0.122 | 1.343 | -0.027 | 0.027 | -0.011 | 11.225 | 15.041 | 0.534 | 0.680 |
| | | | 6.425 | 37.867 | -0.578 | 0.284 | -0.138 | 180.722 | 156.425 | 29.579 | 29.593 |
| 2248 | DELUM | 861007 | 0.014 | 0.117 | 0.000 | 0.024 | 0.000 | 2.344 | 3.735 | 0.525 | 0.028 |
| | | | 0.749 | 3.309 | 0.000 | 0.252 | 0.000 | 37.736 | 38.845 | 29.077 | 1.237 |
| 2251 | DELUM | 860923 | 0.020 | 0.247 | 0.000 | 0.032 | 0.037 | 2.447 | 4.275 | 0.364 | 0.080 |
| | | | 1.033 | 6.972 | 0.000 | 0.335 | 0.465 | 39.396 | 44.455 | 20.139 | 3.487 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2282 | DELUM | 861021 | 0.012 | 0.157 | -0.017 | -0.083 | -0.072 | 1.191 | 2.088 | 0.198 | 0.071 |
| | | | 0.623 | 4.435 | -0.371 | -0.872 | -0.907 | 19.177 | 21.720 | 10.952 | 3.080 |
| 2343 | DELUM | 861103 | -0.003 | 0.242 | 0.020 | 0.058 | -0.014 | 1.406 | 2.356 | 0.103 | 0.111 |
| | | | -0.148 | 6.816 | 0.425 | 0.604 | -0.177 | 22.635 | 24.500 | 5.688 | 4.834 |
| 2357 | DELUM | 861118 | -0.003 | 0.796 | -0.010 | 0.074 | 0.044 | 2.035 | 2.483 | 0.296 | 0.424 |
| | | | -0.155 | 22.440 | -0.208 | 0.782 | 0.552 | 32.762 | 25.824 | 16.395 | 18.434 |
| 2383 | DELUM | 861125 | -0.000 | 1.326 | -0.006 | -0.015 | -0.021 | 1.005 | 1.825 | 0.224 | 0.743 |
| | | | -0.020 | 37.382 | -0.126 | -0.159 | -0.258 | 16.179 | 18.983 | 12.415 | 32.314 |
| 2400 | DELUM | 861202 | -0.004 | 0.849 | -0.005 | 0.065 | 0.199 | 0.944 | 1.607 | 0.112 | 0.471 |
| | | | -0.225 | 23.928 | -0.109 | 0.679 | 2.497 | 15.197 | 16.713 | 6.220 | 20.504 |
| 2421 | DELUM | 861209 | -0.004 | 0.088 | -0.008 | 0.091 | 0.103 | 0.590 | 1.806 | 0.098 | 0.017 |
| | | | -0.236 | 2.472 | -0.163 | 0.954 | 1.286 | 9.497 | 18.778 | 5.440 | 0.737 |
| 2445 | DELUM | 861215 | -0.006 | 0.846 | -0.010 | -0.032 | -0.055 | 0.830 | 1.738 | 0.099 | 0.448 |
| | | | -0.335 | 23.870 | -0.220 | -0.335 | -0.691 | 13.355 | 18.074 | 5.464 | 19.493 |
| 2482 | DELUM | 861223 | -0.002 | 0.255 | -0.004 | 0.059 | -0.019 | 0.801 | 3.244 | 0.110 | 0.127 |
| | | | -0.126 | 7.190 | -0.095 | 0.621 | -0.235 | 12.891 | 33.734 | 6.077 | 5.520 |
| 2507 | DELUM | 861230 | 0.019 | 0.201 | -0.045 | 0.027 | 0.068 | 1.061 | 1.392 | 0.098 | 0.075 |
| | | | 0.989 | 5.662 | -0.979 | 0.284 | 0.848 | 17.087 | 14.482 | 5.407 | 3.266 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1901 | DELUM | 860527 | | | |
| 1907 | DELUM | 860513 | 0.039 | 0.115 | 0.031 |
| | | | 0.995 | 2.881 | 1.270 |
| 1908 | DELUM | 860603 | 0.054 | 0.348 | 0.063 |
| | | | 1.380 | 8.672 | 2.598 |
| 1928 | DELUM | 860520 | 0.024 | 0.052 | 0.014 |
| | | | 0.604 | 1.289 | 0.558 |
| 1992 | DELUM | 860708 | 0.047 | 0.504 | 0.125 |
| | | | 1.204 | 12.570 | 5.147 |
| 2016 | DELUM | 860610 | 0.015 | 0.081 | 0.020 |
| | | | 0.384 | 2.020 | 0.823 |
| 2027 | DELUM | 860617 | 0.089 | 0.640 | 0.090 |
| | | | 2.267 | 15.971 | 3.718 |
| 2049 | DELUM | 860717 | 0.027 | 0.254 | 0.044 |
| | | | 0.701 | 6.334 | 1.803 |
| 2050 | DELUM | 860722 | 0.105 | 0.121 | 0.049 |
| | | | 2.684 | 3.007 | 2.026 |
| 2051 | DELUM | 860731 | 0.027 | 0.126 | 0.019 |
| | | | 0.685 | 3.141 | 0.795 |
| 2062 | DELUM | 860805 | 0.118 | 0.447 | 0.094 |
| | | | 3.011 | 11.144 | 3.866 |
| 2110 | DELUM | 860819 | 0.014 | 0.049 | 0.016 |
| | | | 0.349 | 1.231 | 0.662 |
| 2117 | DELUM | 860826 | 0.014 | 0.041 | 0.008 |
| | | | 0.355 | 1.016 | 0.324 |
| 2131 | DELUM | 860902 | 0.058 | 0.366 | 0.096 |
| | | | 1.480 | 9.122 | 3.958 |
| 2206 | DELUM | 860918 | 0.118 | 1.081 | 0.196 |
| | | | 3.025 | 26.960 | 8.063 |
| 2240 | DELUM | 861007 | 0.022 | 0.109 | 0.018 |
| | | | 0.561 | 2.713 | 0.756 |
| 2251 | DELUM | 860923 | 0.029 | 0.105 | 0.027 |
| | | | 0.742 | 2.621 | 1.129 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2282 | DELUM | 861021 | 0.006 | 0.023 | 0.011 |
| | | | 0.159 | 0.582 | 0.443 |
| 2343 | DELUM | 861103 | 0.007 | 0.028 | 0.015 |
| | | | 0.176 | 0.695 | 0.601 |
| 2357 | DELUM | 861118 | 0.026 | 0.043 | 0.054 |
| | | | 0.669 | 1.082 | 2.234 |
| 2383 | DELUM | 861125 | 0.033 | 0.033 | 0.091 |
| | | | 0.852 | 0.823 | 3.732 |
| 2400 | DELUM | 861202 | 0.026 | 0.005 | 0.058 |
| | | | 0.677 | 0.132 | 2.385 |
| 2421 | DELUM | 861209 | 0.003 | 0.025 | 0.007 |
| | | | 0.084 | 0.624 | 0.268 |
| 2445 | DELUM | 861215 | 0.021 | 0.033 | 0.054 |
| | | | 0.525 | 0.826 | 2.216 |
| 2482 | DELUM | 861223 | 0.013 | 0.031 | 0.023 |
| | | | 0.331 | 0.764 | 0.937 |
| 2507 | DELUM | 861230 | 0.006 | 0.032 | 0.014 |
| | | | 0.159 | 0.802 | 0.577 |

# GEORGIA


GAHIW
GASUM
GADAW
Atlanta
GADUF
GABFG
GAWAY
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

## GEORGIA

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD(1) BEGIN END | #SAMPLES | %NON-VOID(2) |
|---|---|---|---|---|---|---|
| GABFG | B.F. Grant Forest | Eatonton | Putnam | JUN - DEC 1986 | 19 | 94.7 |
| GADAW | Dawsonville | Gainesville | Dawson | | 41 | 97.6 |
| GADUF | McDuffie | Augusta | McDuffie | | 29 | 96.6 |
| GAHIW | Hiawassee | Hiawassee | Towns | | 35 | 97.1 |
| GASUM | Summerville | Summerville | Chattooga | | 40 | 97.5 |
| GAWAY | Waycross | Waycross | Ware | | 31 | 90.3 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)
Site: GABFG
Data Plots, JAN '86 - DEC '86

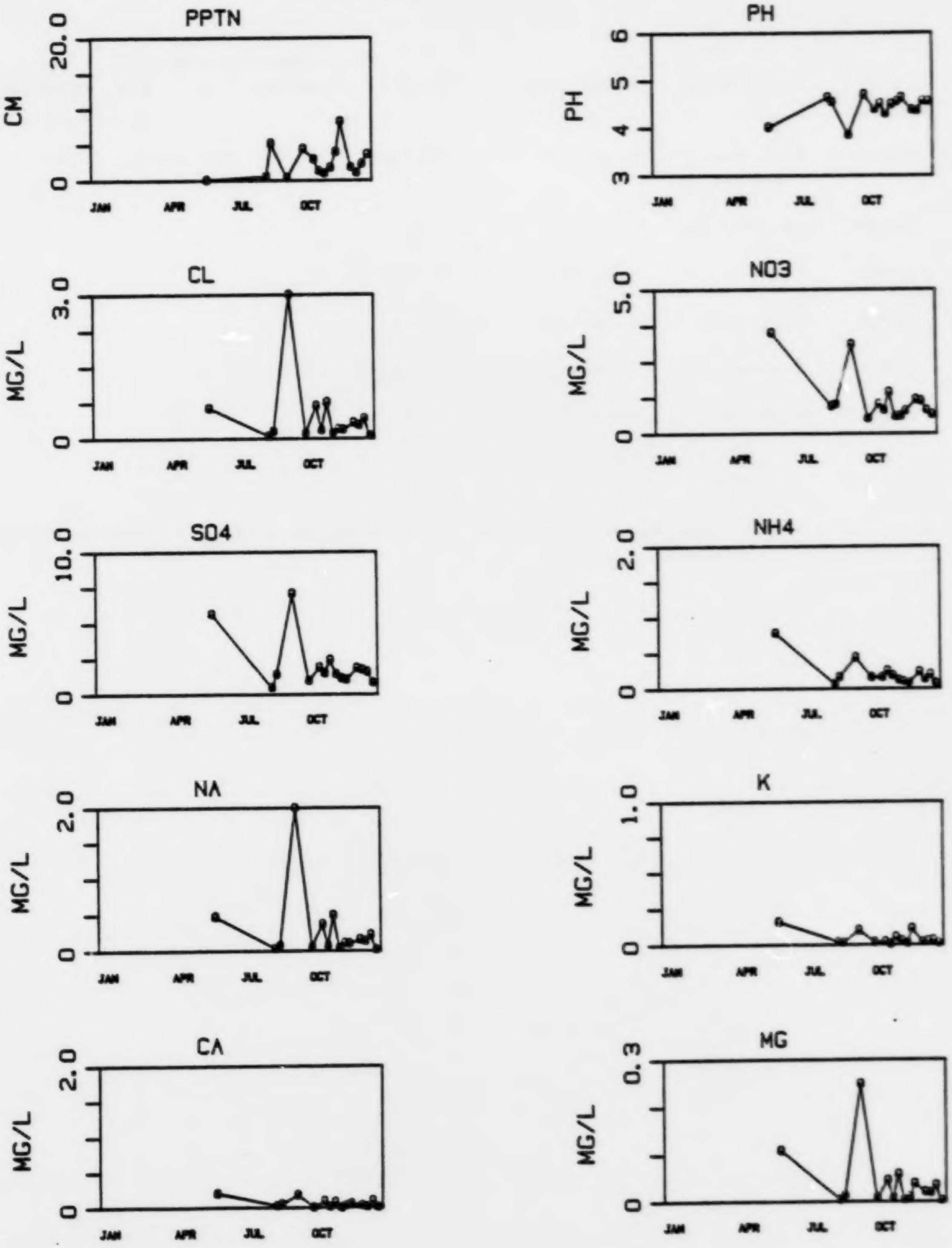


Figure 2-1 (continued)
Site: GADAW
Data Plots, JAN '86 - DEC '86

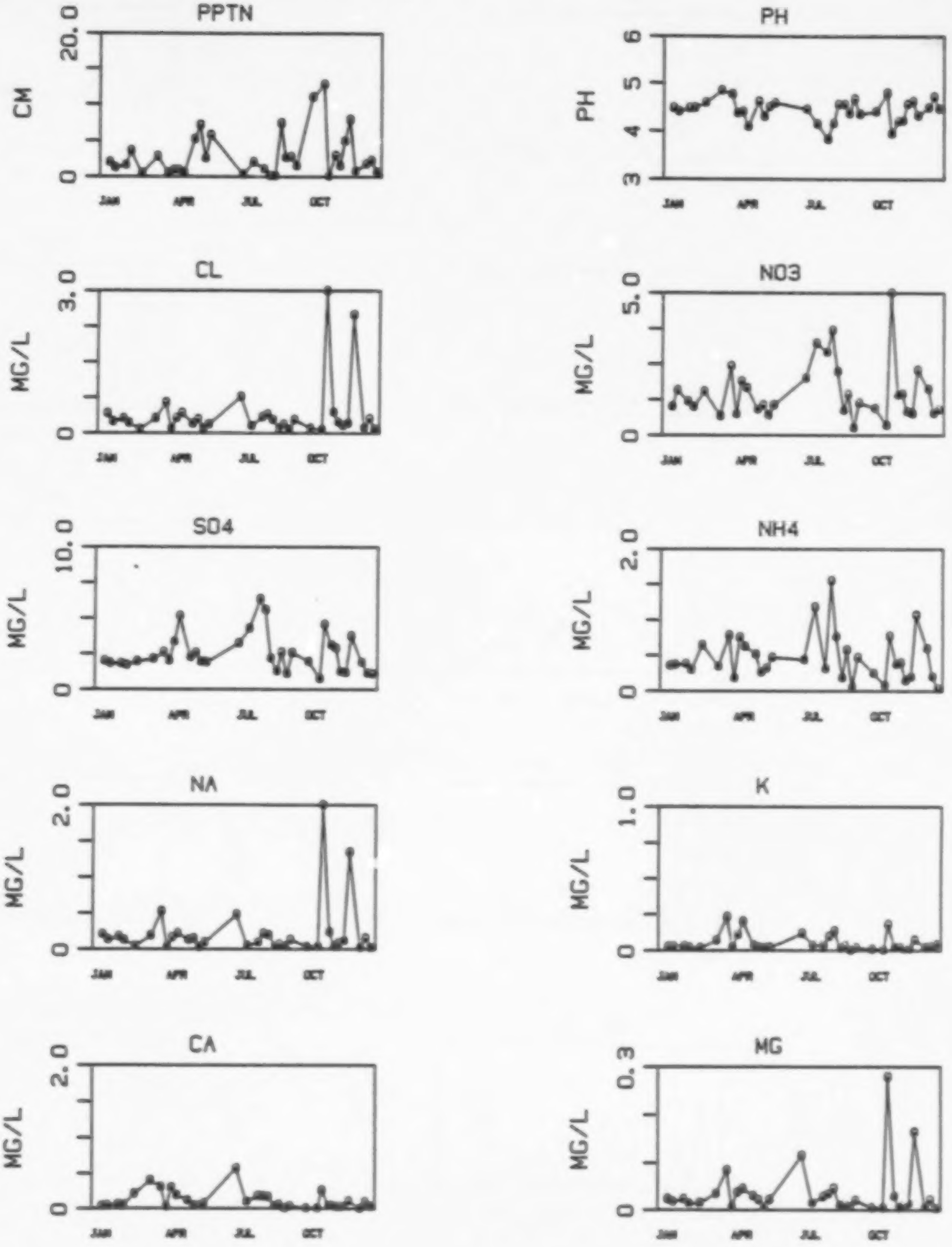


Figure 2-1 (continued)

Site: GADUF

Data Plots, JAN '86 - DEC '86

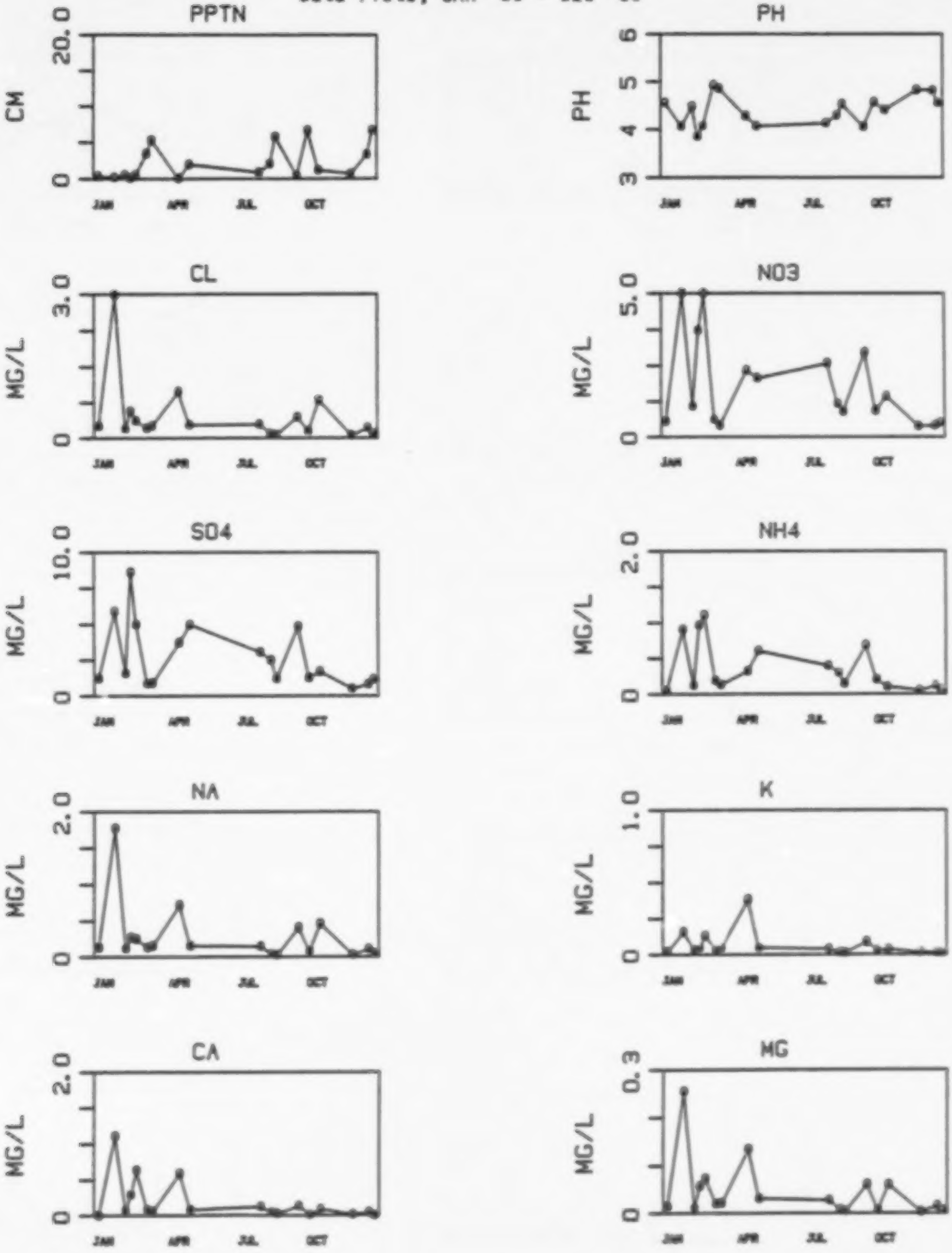


Figure 2-1 (continued)
Site: GAHIW
Data Plots, JAN '86 - DEC '86

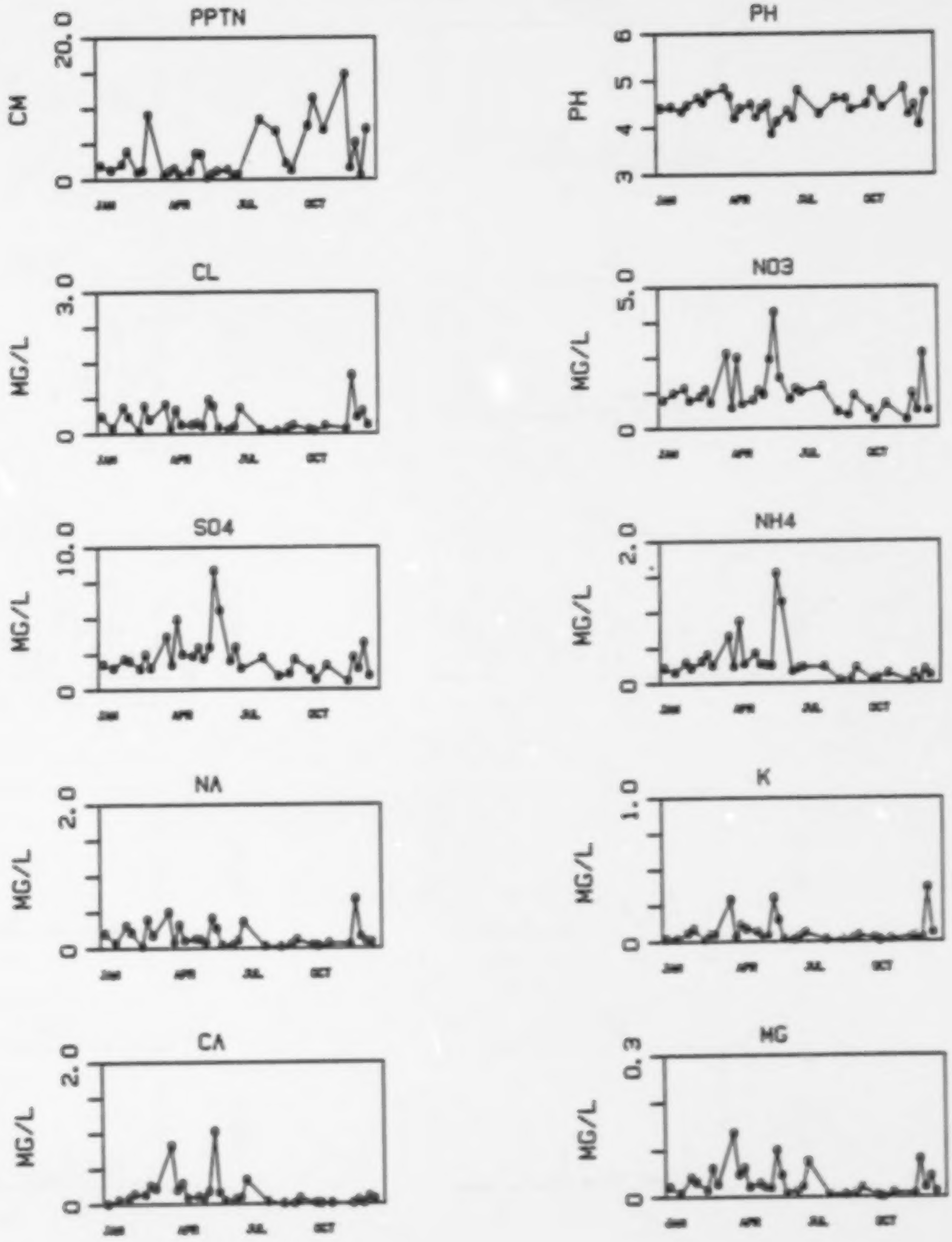


Figure 2-1 (continued)
Site: GASUM
Data Plots, JAN '86 - DEC '86

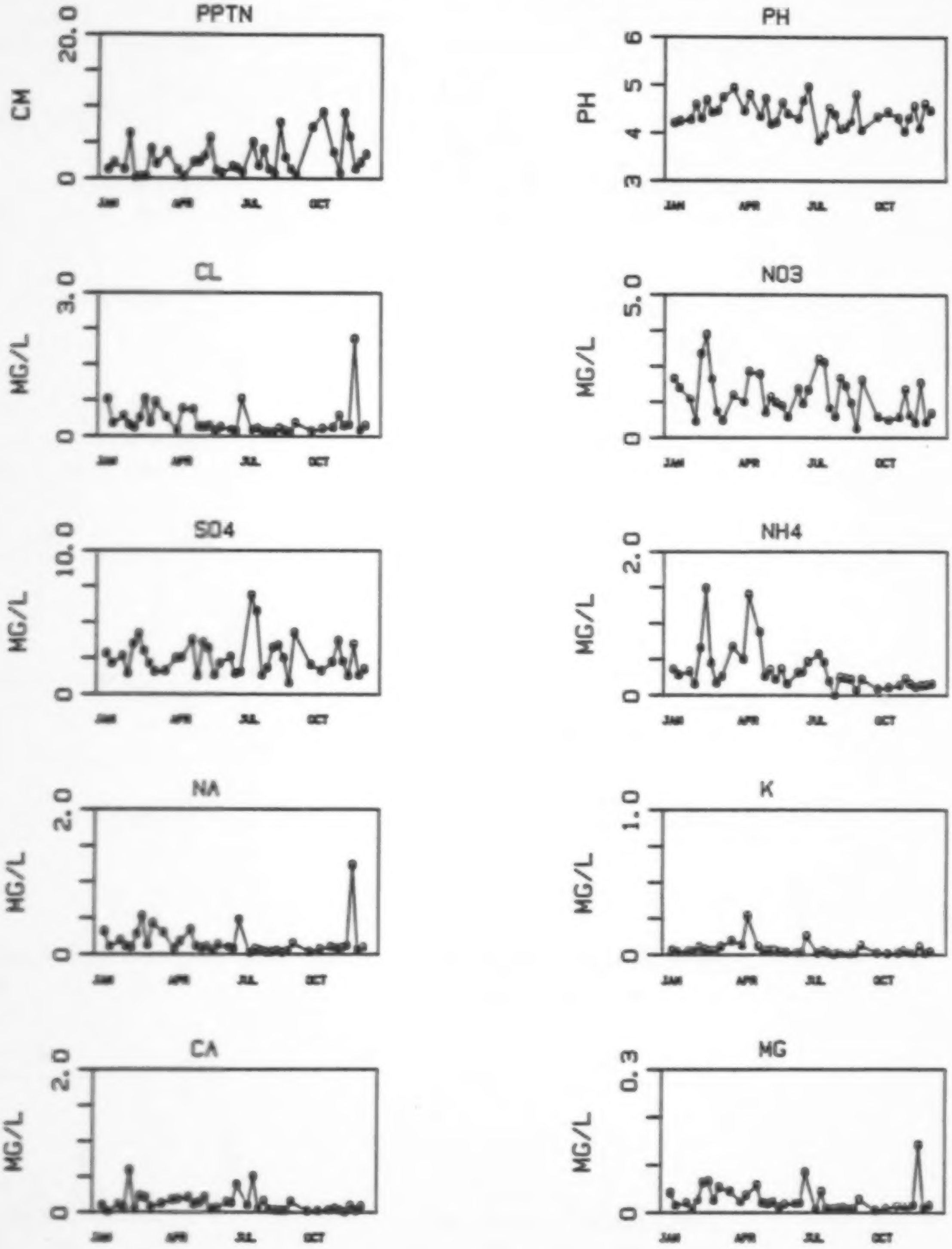
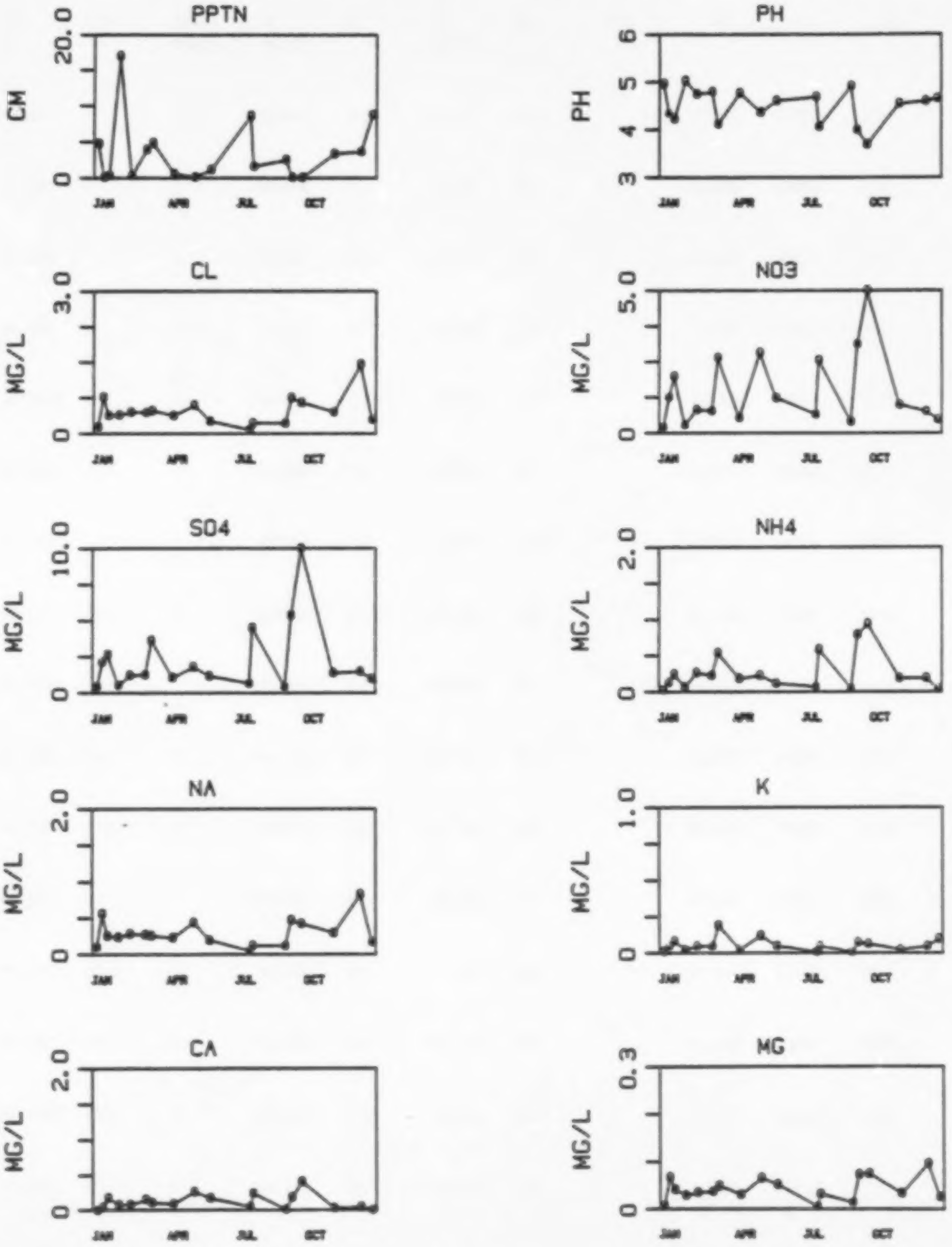


Figure 2-1 (continued)

Site: GAWAY

Data Plots, JAN '86 - DEC '86



PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1909 | GABFG | 860603 | | 1430 | 860610 | 845 | 860617 | 1 | | 34.00 | |
| 1929 | GABFG | 860610 | | 845 | 860617 | 850 | 860624 | 1 | | 508.00 | 39.2 |
| 1993 | GABFG | 860624 | | 845 | 860630 | 850 | 860725 | 2 | | 4059.00 | 48.1 |
| 1994 | GABFG | 860701 | | 851 | 860708 | 918 | 860725 | 1 | | 355.00 | 38.2 |
| 2111 | GABFG | 860826 | | 905 | 860902 | 855 | 860904 | 5 | | 3473.00 | 13.3 |
| 2118 | GABFG | 860902 | | 855 | 860909 | 857 | 860912 | 3 | | 2272.00 | 35.6 |
| 2182 | GABFG | 860820 | | 1001 | 860826 | 905 | 860926 | 1 | | 407.50 | 10.9 |
| 2208 | GABFG | 860916 | | 855 | 860923 | 900 | 861009 | 2 | 0.15 | 257.00 | 67.0 |
| 2239 | GABFG | 861007 | | 845 | 861014 | 900 | 861027 | | | 2959.00 | 10.9 |
| 2274 | GABFG | 861021 | | 836 | 861028 | 845 | 861103 | 2 | 1.13 | 1801.00 | 21.0 |
| 2290 | GABFG | 861028 | | 843 | 861104 | 847 | 861107 | 1 | 0.50 | 829.00 | 15.4 |
| 2300 | GABFG | 861104 | | 900 | 861112 | 810 | 861118 | | | 635.00 | 27.7 |
| 2331 | GABFG | 861112 | | 810 | 861119 | 850 | 861125 | 3 | 0.70 | 1133.00 | 15.9 |
| 2365 | GABFG | 861119 | | 815 | 861125 | 820 | 861204 | 1 | 1.55 | 2392.00 | 15.9 |
| 2384 | GABFG | 861125 | | 815 | 861202 | 830 | 861211 | 5 | 3.22 | 5441.00 | 13.6 |
| 2422 | GABFG | 861209 | | 825 | 861216 | 910 | 870105 | 4 | 0.70 | 995.00 | 24.1 |
| 2461 | GABFG | 861216 | | 910 | 861223 | 900 | 870109 | 3 | 0.40 | 648.00 | 21.5 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2462 | GABF6 | 861223 |  | 900 | 861230 | 830 | 870109 | 2 | 0.90 | 1413.00 | 17.5 |
| 2483 | GABF6 | 861230 |  | 830 | 870106 | 900 | 870114 | 3 | 1.41 | 2446.00 | 11.8 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1909 | GABFG | 860603 |  |  | 21 | 1.06 | 1.03 | 12.0 | 4.01 |  | 52.5 |
| 1929 | GABFG | 860610 | 4.05 | 3 | 34 | 0.99 | 1.00 | 475.0 | 4.06 | 101.5 | 43.9 |
| 1993 | GABFG | 860624 | 3.96 | 3 | 3421 | 1.07 | 0.99 | 445.0 | 3.81 | 171.9 | 72.0 |
| 1994 | GABFG | 860701 | 4.31 | 3 | 213499 | 9999.00 | 9999.00 | 300.0 | 4.20 |  |  |
| 2111 | GABFG | 860826 | 4.52 |  |  | 1.12 | 1.22 | 450.0 | 4.54 | 34.0 | 12.2 |
| 2118 | GABFG | 860902 | 4.12 |  | 2134 | 1.07 | 1.15 | 550.0 | 4.07 | 90.1 | 34.5 |
| 2182 | GABFG | 860820 | 4.62 |  |  | 0.96 | 1.26 | 375.0 | 4.64 | 29.0 | 8.3 |
| 2208 | GABFG | 860916 | 3.38 | 3 |  | 1.04 | 1.00 | 225.0 | 3.85 | 145.5 | 79.6 |
| 2239 | GABFG | 861007 | 4.62 | 3 |  | 1.02 | 1.25 | 550.0 | 4.70 | 24.8 | 8.2 |
| 2274 | GABFG | 861021 | 4.33 |  |  | 1.06 | 1.12 | 475.0 | 4.39 | 45.8 | 19.6 |
| 2290 | GABFG | 861028 | 4.30 |  |  | 1.03 | 1.14 | 550.0 | 4.51 | 37.0 | 13.9 |
| 2300 | GABFG | 861104 | 4.23 |  |  | 1.04 | 1.02 | 530.0 | 4.29 | 56.9 | 26.9 |
| 2331 | GABFG | 861112 | 4.44 |  |  | 1.11 | 1.16 | 550.0 | 4.49 | 39.1 | 13.2 |
| 2365 | GABFG | 861119 | 4.45 |  |  | 0.98 | 1.20 | 420.0 | 4.55 | 31.8 | 11.4 |
| 2384 | GABFG | 861125 | 4.60 |  | 33 | 0.96 | 1.16 | 525.0 | 4.63 | 28.3 | 10.5 |
| 2422 | GABFG | 861209 | 4.30 |  |  | 1.01 | 1.09 | 475.0 | 4.37 | 46.7 | 19.5 |
| 2461 | GABFG | 861216 | 4.30 |  |  | 1.07 | 1.11 | 525.0 | 4.36 | 49.0 | 18.7 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN<br>uequiv/l | COND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2462 | 6ABF6 | 861223 | 4.42 |  |  | 1.01 | 1.14 | 550.0 | 4.56 | 33.5 | 13.7 |
| 2483 | 6ABF6 | 861230 | 4.50 | 3 |  | 1.01 | 1.28 | 500.0 | 4.55 | 34.2 | 9.7 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1909 | GABFG | 860603 | 0.072 | 0.631 | -0.010 | -0.319 | -0.012 | 3.499 | 5.633 | 0.785 | 0.472 |
|  |  |  | 3.804 | 17.803 | -0.209 | -3.350 | -0.153 | 56.340 | 58.586 | 43.508 | 20.530 |
| 1929 | GABFG | 860610 | -0.001 | 0.171 | -0.013 | -0.011 | -0.017 | 2.307 | 4.441 | 0.745 | 0.038 |
|  |  |  | -0.076 | 4.800 | -0.276 | -0.114 | -0.219 | 37.137 | 46.191 | 41.284 | 1.648 |
| 1993 | GABFG | 860624 | 0.046 | 0.158 | -0.003 | 0.072 | -0.016 | 2.298 | 7.440 | 0.496 | 0.033 |
|  |  |  | 2.422 | 4.454 | -0.056 | 0.753 | -0.203 | 37.004 | 77.374 | 27.475 | 1.448 |
| 1994 | GABFG | 860701 |  |  |  |  |  |  |  |  |  |
| 2111 | GABFG | 860826 | 0.010 | 0.151 | -0.015 | -0.097 | -0.076 | 1.036 | 1.402 | 0.162 | 0.077 |
|  |  |  | 0.507 | 4.259 | -0.333 | -1.021 | -0.951 | 16.680 | 14.586 | 8.979 | 3.343 |
| 2118 | GABFG | 860902 | 0.027 | 0.292 | -0.019 | -0.149 | -0.107 | 2.158 | 3.354 | 0.224 | 0.153 |
|  |  |  | 1.411 | 8.238 | -0.413 | -1.569 | -1.340 | 34.737 | 34.881 | 12.389 | 6.634 |
| 2182 | GABFG | 860820 | 0.015 | 0.050 | -0.009 | 0.038 | 0.062 | 0.953 | 0.451 | 0.063 | 0.033 |
|  |  |  | 0.806 | 1.401 | -0.189 | 0.397 | 0.775 | 15.347 | 4.694 | 3.517 | 1.442 |
| 2208 | GABFG | 860916 | 0.037 | 3.411 | -0.028 | 0.024 | 0.031 | 3.096 | 7.065 | 0.437 | 2.024 |
|  |  |  | 1.959 | 96.180 | -0.616 | 0.250 | 0.384 | 49.839 | 73.474 | 24.234 | 88.034 |
| 2239 | GABFG | 861007 | 0.007 | 0.114 | 0.000 | 0.028 | 0.000 | 0.525 | 0.957 | 0.156 | 0.060 |
|  |  |  | 0.379 | 3.215 | 0.000 | 0.295 | 0.000 | 8.457 | 9.952 | 8.615 | 2.594 |
| 2274 | GABFG | 861021 | 0.019 | 0.684 | -0.004 | 0.068 | -0.021 | 1.022 | 1.903 | 0.158 | 0.368 |
|  |  |  | 0.983 | 19.276 | -0.098 | 0.712 | -0.264 | 16.448 | 19.786 | 8.753 | 16.012 |
| 2290 | GABFG | 861028 | 0.010 | 0.173 | -0.006 | 0.047 | -0.004 | 0.819 | 1.467 | 0.251 | 0.070 |
|  |  |  | 0.510 | 4.889 | -0.135 | 0.495 | -0.052 | 13.189 | 15.253 | 13.883 | 3.065 |
| 2300 | GABFG | 861104 | 0.019 | 0.754 | -0.021 | -0.025 | -0.069 | 1.431 | 2.428 | 0.181 | 0.488 |
|  |  |  | 0.994 | 21.249 | -0.465 | -0.265 | -0.867 | 23.041 | 25.253 | 10.039 | 21.240 |
| 2331 | GABFG | 861112 | -0.002 | 0.114 | 0.024 | 0.110 | -0.010 | 0.592 | 1.402 | 0.116 | 0.040 |
|  |  |  | -0.094 | 3.210 | 0.514 | 1.150 | -0.126 | 9.531 | 14.580 | 6.421 | 1.734 |
| 2365 | GABFG | 861119 | -0.001 | 0.198 | 0.019 | 0.045 | -0.031 | 0.609 | 1.104 | 0.094 | 0.106 |
|  |  |  | -0.054 | 5.586 | 0.413 | 0.474 | -0.389 | 9.808 | 11.482 | 5.228 | 4.625 |
| 2384 | GABFG | 861125 | -0.000 | 0.185 | 0.006 | -0.015 | -0.022 | 0.788 | 1.020 | 0.079 | 0.099 |
|  |  |  | -0.017 | 5.214 | 0.128 | -0.160 | -0.273 | 12.692 | 10.603 | 4.378 | 4.305 |
| 2422 | GABFG | 861209 | -0.005 | 0.327 | -0.008 | -0.029 | -0.050 | 1.174 | 1.843 | 0.234 | 0.157 |
|  |  |  | -0.238 | 9.224 | -0.167 | -0.305 | -0.622 | 18.901 | 19.163 | 12.953 | 6.843 |
| 2461 | GABFG | 861216 | 0.028 | 0.276 | -0.010 | -0.036 | -0.009 | 1.118 | 1.719 | 0.128 | 0.132 |
|  |  |  | 1.481 | 7.777 | -0.214 | -0.380 | -0.116 | 17.999 | 17.876 | 7.075 | 5.752 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2462 | GABF6 | 861223 | -0.009 | 0.417 | -0.010 | -0.037 | -0.009 | 0.809 | 1.548 | 0.197 | 0.221 |
| | | | -0.491 | 11.747 | -0.211 | -0.390 | -0.117 | 13.024 | 16.101 | 10.931 | 9.634 |
| 2483 | GABF6 | 861230 | -0.003 | 0.062 | -0.005 | 0.027 | 0.308 | 0.653 | 0.799 | 0.071 | 0.016 |
| | | | -0.134 | 1.750 | -0.100 | 0.284 | 3.853 | 10.519 | 8.310 | 3.922 | 0.705 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1909 | GABFG | 860603 | 0.157<br>4.016 | 0.205<br>5.107 | 0.108<br>4.451 |
| 1929 | GABFG | 860610 | 0.041<br>1.056 | 0.076<br>1.897 | 0.014<br>0.575 |
| 1993 | GABFG | 860624 | 0.053<br>1.359 | 0.067<br>1.666 | 0.014<br>0.596 |
| 1994 | GABFG | 860701 | | | |
| 2111 | GABFG | 860826 | 0.016<br>0.402 | 0.057<br>1.411 | 0.013<br>0.528 |
| 2118 | GABFG | 860902 | 0.024<br>0.611 | 0.028<br>0.704 | 0.021<br>0.848 |
| 2182 | GABFG | 860820 | 0.020<br>0.521 | 0.031<br>0.785 | 0.004<br>0.166 |
| 2208 | GABFG | 860916 | 0.099<br>2.539 | 0.183<br>4.570 | 0.248<br>10.218 |
| 2239 | GABFG | 861007 | 0.016<br>0.412 | 0.007<br>0.166 | 0.007<br>0.304 |
| 2274 | GABFG | 861021 | 0.020<br>0.501 | 0.095<br>2.366 | 0.045<br>1.850 |
| 2290 | GABFG | 861028 | 0.004<br>0.092 | 0.014<br>0.350 | 0.008<br>0.341 |
| 2300 | GABFG | 861104 | 0.052<br>1.324 | 0.082<br>2.034 | 0.058<br>2.381 |
| 2331 | GABFG | 861112 | 0.025<br>0.646 | -0.015<br>-0.385 | 0.004<br>0.173 |
| 2365 | GABFG | 861119 | 0.010<br>0.264 | 0.039<br>0.973 | 0.011<br>0.452 |
| 2384 | GABFG | 861125 | 0.110<br>2.812 | 0.060<br>1.496 | 0.038<br>1.554 |
| 2422 | GABFG | 861209 | 0.018<br>0.460 | 0.033<br>0.831 | 0.020<br>0.815 |
| 2461 | GABFG | 861216 | 0.023<br>0.595 | 0.014<br>0.354 | 0.018<br>0.754 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2462 | GABFG | 861223 | 0.031 | 0.099 | 0.034 |
| | | | 0.794 | 2.473 | 1.418 |
| 2483 | GABFG | 861230 | 0.010 | 0.008 | 0.003 |
| | | | 0.264 | 0.191 | 0.112 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1567 | GADAW | 860114 |  | 1605 | 860121 | 1615 | 860130 | 2 | 0.80 | 1432.00 | 23.2 |
| 1578 | GADAW | 860121 |  | 1615 | 860128 | 1130 | 860204 | 1 | 0.50 | 828.00 | 23.3 |
| 1620 | GADAW | 860204 |  | 1515 | 860211 | 1300 | 860221 | 4 | 0.65 | 1158.00 | 20.5 |
| 1639 | GADAW | 860211 | 2 | 1300 | 860218 | 1315 | 860227 | 5 | 1.40 | 2476.00 | 19.8 |
| 1651 | GADAW | 860218 |  | 1315 | 860225 | 1300 | 860303 | 1 | 0.05 | 124.00 |  |
| 1671 | GADAW | 860225 |  | 1300 | 860304 | 1400 | 860312 | 1 |  | 327.00 |  |
| 1700 | GADAW | 860311 |  | 1300 | 860318 | 1400 | 860325 | 3 | 1.90 | 3329.00 | 7.7 |
| 1720 | GADAW | 860318 |  | 1400 | 860325 | 1445 | 860401 | 2 | 1.10 | 1854.00 | 14.7 |
| 1756 | GADAW | 860401 |  | 1330 | 860408 | 1315 | 860416 | 1 | 0.20 | 374.00 | 28.3 |
| 1778 | GADAW | 860408 |  | 1315 | 860415 | 1245 | 860425 | 1 | 0.35 | 607.00 | 17.3 |
| 1787 | GADAW | 860415 |  | 1245 | 860422 | 1430 | 860501 | 2 | 0.35 | 616.00 | 31.5 |
| 1813 | GADAW | 860422 |  | 1430 | 860429 | 1315 | 860508 | 1 | 0.20 | 327.00 | 44.0 |
| 1833 | GADAW | 860506 |  | 1300 | 860513 | 1430 | 860516 | 1 | 2.05 | 3421.00 | 16.5 |
| 1858 | GADAW | 860513 |  | 1430 | 860520 | 1245 | 860602 | 4 | 2.80 | 4876.00 | 25.1 |
| 1866 | GADAW | 860520 |  | 1245 | 860527 | 1315 | 860603 | 1 | 1.00 | 1717.00 | 18.5 |
| 1895 | GADAW | 860527 |  | 1315 | 860603 | 1415 | 860612 | 2 | 2.25 | 3805.00 | 15.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1567 | GADAW | 860114 | 3.77 | | | 1.04 | 1.07 | 550.000 | 4.47 | 40.27 | 18.0 |
| 1570 | GADAW | 860121 | 4.09 | | | 1.00 | 1.07 | 550.000 | 4.40 | 45.02 | 19.9 |
| 1620 | GADAW | 860204 | 4.37 | | | 0.96 | 1.11 | 550.000 | 4.47 | 38.18 | 17.1 |
| 1639 | GADAW | 860211 | 4.31 | 3 | | 0.97 | 1.11 | 550.000 | 4.40 | 32.60 | 15.9 |
| 1651 | GADAW | 860218 | | 34 | 3199 | 9999.00 | 9999.00 | 130.000 | 6.60 | | |
| 1671 | GADAW | 860225 | | | | 0.91 | 1.11 | 330.000 | 4.59 | 31.01 | 15.8 |
| 1700 | GADAW | 860311 | 5.36 | | 31 | 0.95 | 1.16 | 550.000 | 5.89 | | 7.1 |
| 1720 | GADAW | 860318 | 4.36 | | | 1.00 | 1.05 | 550.000 | 4.84 | 19.92 | 12.7 |
| 1756 | GADAW | 860401 | 4.19 | 3 | | 1.01 | 1.03 | 330.000 | 4.76 | 24.43 | 20.0 |
| 1770 | GADAW | 860408 | 4.19 | | | 1.02 | 1.07 | 550.000 | 4.37 | 47.50 | 18.8 |
| 1787 | GADAW | 860415 | 4.07 | 3 | | 1.02 | 1.05 | 550.000 | 4.40 | 45.42 | 25.5 |
| 1813 | GADAW | 860422 | 3.90 | 3 | | 1.04 | 1.02 | 275.000 | 4.09 | 87.23 | 42.7 |
| 1833 | GADAW | 860506 | 4.29 | | | 1.02 | 1.08 | 550.000 | 4.61 | 29.80 | 15.4 |
| 1850 | GADAW | 860513 | 4.03 | | | 1.06 | 1.04 | 550.000 | 4.30 | 56.90 | 24.2 |
| 1866 | GADAW | 860520 | 4.10 | | | 1.04 | 1.05 | 550.000 | 4.50 | 36.50 | 15.9 |
| 1895 | GADAW | 860527 | 4.58 | | | 1.04 | 1.08 | 550.000 | 4.58 | 30.60 | 15.1 |

| ID | STN | DD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1567 | GADAN | 860114 | -0.009<br>-0.450 | 0.409<br>11.543 | -0.007<br>-0.148 | -0.043<br>-0.453 | -0.014<br>-0.172 | 1.005<br>16.175 | 1.995<br>20.767 | 0.357<br>19.774 | 0.203<br>8.827 |
| 1570 | GADAN | 860121 | 0.012<br>0.657 | 0.240<br>6.765 | -0.013<br>-0.287 | -0.009<br>-0.099 | -0.027<br>-0.339 | 1.583<br>25.494 | 1.824<br>18.965 | 0.372<br>20.589 | 0.132<br>5.757 |
| 1620 | GADAN | 860204 | 0.006<br>0.320 | 0.305<br>8.614 | -0.008<br>-0.170 | -0.019<br>-0.198 | -0.045<br>-0.563 | 1.140<br>18.394 | 1.809<br>18.814 | 0.381<br>21.107 | 0.175<br>7.593 |
| 1639 | GADAN | 860211 | 0.007<br>0.348 | 0.206<br>5.819 | -0.013<br>-0.275 | -0.022<br>-0.227 | -0.053<br>-0.663 | 0.989<br>15.921 | 1.694<br>17.617 | 0.299<br>16.576 | 0.122<br>5.300 |
| 1651 | GADAN | 860218 |  |  |  |  |  |  |  |  |  |
| 1671 | GADAN | 860225 | 0.013<br>0.662 | 0.082<br>2.304 | -0.014<br>-0.311 | -0.058<br>-0.606 | -0.042<br>-0.522 | 1.533<br>24.673 | 1.959<br>20.371 | 0.643<br>35.608 | 0.045<br>1.942 |
| 1700 | GADAN | 860311 | 0.009<br>0.448 | 0.202<br>5.698 | -0.010<br>-0.227 | 0.371<br>3.896 | -0.070<br>-0.871 | 0.719<br>11.582 | 1.145<br>11.904 | 0.640<br>35.480 | 0.109<br>4.759 |
| 1720 | GADAN | 860318 | 0.012<br>0.618 | 0.311<br>8.763 | -0.013<br>-0.278 | 0.035<br>0.364 | -0.068<br>-0.847 | 0.672<br>10.829 | 2.136<br>22.219 | 0.347<br>19.243 | 0.187<br>8.137 |
| 1756 | GADAN | 860401 | 0.025<br>1.293 | 0.640<br>18.049 | -0.016<br>-0.352 | -0.033<br>-0.342 | -0.047<br>-0.585 | 2.427<br>39.068 | 2.588<br>26.918 | 0.779<br>43.146 | 0.525<br>22.819 |
| 1770 | GADAN | 860408 | 0.011<br>0.591 | 0.105<br>2.962 | -0.056<br>-1.212 | -0.017<br>-0.179 | -0.025<br>-0.309 | 0.748<br>12.043 | 2.019<br>20.997 | 0.184<br>10.210 | 0.041<br>1.784 |
| 1787 | GADAN | 860415 | 0.020<br>1.031 | 0.316<br>8.920 | -0.008<br>-0.168 | 0.011<br>0.113 | -0.009<br>-0.114 | 1.896<br>30.533 | 3.344<br>34.780 | 0.751<br>41.580 | 0.162<br>7.039 |
| 1813 | GADAN | 860422 | 0.023<br>1.200 | 0.420<br>11.854 | -0.017<br>-0.362 | 0.017<br>0.181 | 0.082<br>1.030 | 1.657<br>26.675 | 5.131<br>53.365 | 0.622<br>34.470 | 0.219<br>9.537 |
| 1833 | GADAN | 860506 | 0.009<br>0.480 | 0.196<br>5.533 | -0.006<br>-0.133 | 0.027<br>0.287 | -0.011<br>-0.136 | 0.906<br>14.601 | 2.263<br>23.538 | 0.509<br>28.214 | 0.125<br>5.422 |
| 1858 | GADAN | 860513 | 0.009<br>0.494 | 0.293<br>8.265 | -0.019<br>-0.418 | 0.011<br>0.115 | -0.018<br>-0.227 | 1.057<br>17.014 | 2.555<br>26.575 | 0.265<br>14.667 | 0.147<br>6.396 |
| 1866 | GADAN | 860520 | 0.013<br>0.664 | 0.091<br>2.574 | 0.048<br>1.047 | -0.037<br>-0.394 | -0.010<br>-0.128 | 0.698<br>11.237 | 1.920<br>19.966 | 0.321<br>17.759 | 0.028<br>1.207 |
| 1895 | GADAN | 860527 | 0.012<br>0.611 | 0.179<br>5.060 | -0.006<br>-0.136 | -0.020<br>-0.213 | -0.013<br>-0.163 | 1.049<br>16.887 | 1.896<br>19.714 | 0.467<br>25.899 | 0.091<br>3.974 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1567 | GADAW | 860114 | 0.028<br>0.717 | 0.037<br>0.930 | 0.024<br>0.981 |
| 1578 | GADAW | 860121 | 0.031<br>0.797 | 0.051<br>1.274 | 0.017<br>0.716 |
| 1620 | GADAW | 860204 | 0.030<br>0.761 | 0.062<br>1.537 | 0.023<br>0.949 |
| 1639 | GADAW | 860211 | 0.019<br>0.484 | 0.052<br>1.291 | 0.014<br>0.561 |
| 1651 | GADAW | 860218 | | | |
| 1671 | GADAW | 860225 | 0.019<br>0.474 | 0.207<br>5.167 | 0.014<br>0.596 |
| 1700 | GADAW | 860311 | 0.152<br>3.882 | 0.159<br>3.978 | 0.030<br>1.246 |
| 1720 | GADAW | 860318 | 0.069<br>1.773 | 0.396<br>9.876 | 0.034<br>1.414 |
| 1756 | GADAW | 860401 | 0.232<br>5.931 | 0.306<br>7.644 | 0.084<br>3.475 |
| 1770 | GADAW | 860408 | 0.026<br>0.676 | 0.025<br>0.619 | 0.007<br>0.275 |
| 1787 | GADAW | 860415 | 0.108<br>2.767 | 0.295<br>7.372 | 0.037<br>1.531 |
| 1813 | GADAW | 860422 | 0.200<br>5.106 | 0.188<br>4.691 | 0.046<br>1.874 |
| 1833 | GADAW | 860506 | 0.037<br>0.951 | 0.114<br>2.850 | 0.029<br>1.209 |
| 1858 | GADAW | 860513 | 0.020<br>0.499 | 0.042<br>1.059 | 0.020<br>0.840 |
| 1866 | GADAW | 860520 | 0.017<br>0.439 | 0.040<br>0.998 | 0.005<br>0.225 |
| 1895 | GADAW | 860527 | 0.020<br>0.513 | 0.078<br>1.955 | 0.022<br>0.896 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1910 | GADAG | 860603 |  | 1415 | 860610 | 1315 | 860617 | 2 | 0.25 | 475.00 | 26.2 |
| 1975 | GADAG | 860701 |  | 1000 | 860708 | 1300 | 860716 | 2 |  | 845.00 | 39.0 |
| 1987 | GADAG | 860708 |  | 1300 | 860715 | 940 | 860724 | 1 | 0.12 | 201.00 | 24.2 |
| 2020 | GADAG | 860722 |  | 1300 | 860729 |  | 860807 | 3 | 0.80 | 1461.00 | 41.5 |
| 2052 | GADAG | 860729 |  | 1000 | 860805 | 900 | 860813 | 1 | 0.20 | 333.00 | 74.7 |
| 2063 | GADAG | 860805 |  | 900 | 860812 | 1145 | 860819 | 2 | 0.40 | 726.00 | 71.5 |
| 2083 | GADAG | 860812 |  | 1145 | 860819 | 945 | 860827 | 1 | 0.05 | 54.00 |  |
| 2103 | GADAG | 860819 |  | 945 | 860827 | 1305 | 860903 | 1 | 0.05 | 77.00 |  |
| 2120 | GADAG | 860827 |  | 1305 | 860902 | 1145 | 860915 | 6 | 2.90 | 5018.00 | 14.0 |
| 2136 | GADAG | 860902 |  | 1145 | 860909 | 900 | 860917 | 5 | 1.05 | 1825.00 | 25.4 |
| 2155 | GADAG | 860909 |  | 900 | 860916 | 1030 | 860924 | 1 | 1.08 | 1046.00 | 10.6 |
| 2193 | GADAG | 860916 |  | 1030 | 860923 | 1400 | 861003 | 1 | 0.60 | 995.00 | 22.4 |
| 2252 | GADAG | 860923 |  | 1400 | 860930 | 1000 | 861029 | 1 | 0.10 | 200.00 | 11.9 |
| 2253 | GADAG | 861007 |  | 1130 | 861014 | 1300 | 861029 | 5 |  | 7474.00 | 21.0 |
| 2267 | GADAG | 861022 |  | 945 | 861028 | 1000 | 861031 | 3 | 5.02 | 8606.00 | 9.1 |
| 2295 | GADAG | 861028 |  | 1000 | 861106 | 1500 | 861112 | 2 | 0.03 | 66.00 |  |
| 2301 | GADAG | 861106 |  | 1500 | 861112 | 1145 | 861118 | 4 | 1.15 | 1939.00 | 32.3 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2344 | GADAW | 061112 | | 1145 | 061118 | 1030 | 061129 | 4 | 0.60 | 983.00 | 30.7 |
| 2358 | GADAW | 061118 | | 1030 | 061125 | 945 | 061202 | 4 | 1.95 | 3363.00 | 13.5 |
| 2376 | GADAW | 061125 | | 945 | 061202 | 930 | 061209 | 6 | 3.10 | 5387.00 | 12.2 |
| 2403 | GADAW | 061202 | | 930 | 061209 | 930 | 061218 | 2 | 0.30 | 537.00 | 39.8 |
| 2416 | GADAW | 061209 | | 930 | 061216 | 1100 | 061223 | 4 | 1.35 | 2304.00 | 9.4 |
| 2423 | GADAW | 061216 | | 1100 | 061223 | 1030 | 870105 | 3 | 0.70 | 1142.00 | 15.8 |
| 2463 | GADAW | 061223 | | 1030 | 061230 | 930 | 870109 | 2 | 0.90 | 1550.00 | 13.4 |
| 2499 | GADAW | 061230 | | 930 | 870106 | 1030 | 870120 | 1 | 0.25 | 454.00 | 15.6 |

| ID | STN | DD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1910 | GADAW | 860603 | 4.35 | 3 | 34 | 0.99 | 1.05 | 440.0 | 4.40 | 41.0 | 22.7 |
| 1975 | GADAW | 860701 | 4.05 | 3 | 34 | 1.07 | 1.02 | 550.0 | 4.07 | 94.4 | 39.3 |
| 1987 | GADAW | 860708 | 4.44 | 3 |  | 1.02 | 1.10 | 100.0 | 4.45 | 44.2 | 24.6 |
| 2020 | GADAW | 860722 | 3.62 | 3 |  | 1.00 | 1.01 | 550.0 | 4.14 | 80.5 | 41.1 |
| 2052 | GADAW | 860729 | 3.74 |  | 34 | 1.07 | 0.96 | 300.0 | 3.70 | 183.2 | 82.3 |
| 2063 | GADAW | 860805 | 3.84 | 3 |  | 1.05 | 1.08 | 550.0 | 3.83 | 161.9 | 63.1 |
| 2083 | GADAW | 860812 |  | 3 |  | 1.07 | 1.04 | 40.0 | 4.16 |  | 44.3 |
| 2103 | GADAW | 860819 |  | 3 |  | 0.98 | 1.10 | 60.0 | 4.55 | 34.4 | 19.2 |
| 2120 | GADAW | 860827 | 4.51 |  |  | 1.05 | 1.21 | 550.0 | 4.55 | 32.3 | 11.7 |
| 2136 | GADAW | 860902 | 4.33 |  |  | 1.02 | 1.10 | 550.0 | 4.36 | 52.0 | 22.0 |
| 2155 | GADAW | 860909 | 4.67 | 3 |  | 1.10 | 1.24 | 550.0 | 4.67 | 26.8 | 8.1 |
| 2193 | GADAW | 860916 | 4.32 |  |  | 1.02 | 1.08 | 550.0 | 4.35 | 52.4 | 22.3 |
| 2252 | GADAW | 860923 | 5.33 | 3 | 34 | 0.90 | 1.00 | 160.0 | 5.47 | 15.6 | 11.5 |
| 2253 | GADAW | 861007 | 4.34 |  |  | 1.08 | 1.13 | 550.0 | 4.40 | 45.1 | 17.2 |
| 2267 | GADAW | 861022 | 4.77 |  |  | 1.13 | 1.28 | 550.0 | 4.79 | 21.9 | 6.2 |
| 2295 | GADAW | 861028 |  |  |  | 1.03 | 0.96 | 60.0 | 3.35 |  | 75.4 |
| 2301 | GADAW | 861106 | 4.23 |  |  | 1.03 | 1.02 | 550.0 | 4.21 | 69.1 | 30.7 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2344 | GADAW | 861112 | 4.25 | | | 1.12 | 0.98 | 550.0 | 4.22 | 74.9 | 30.6 |
| 2358 | GADAW | 861118 | 4.58 | | | 1.13 | 1.16 | 550.0 | 4.56 | 34.5 | 12.0 |
| 2376 | GADAW | 861125 | 4.64 | | | 1.00 | 1.16 | 550.0 | 4.62 | 26.6 | 11.1 |
| 2403 | GADAW | 861202 | 4.30 | | | 1.01 | 1.04 | 475.0 | 4.32 | 52.5 | 37.9 |
| 2416 | GADAW | 861209 | 4.88 | | 34 | 1.05 | 1.24 | 550.0 | 4.83 | 20.5 | 7.9 |
| 2423 | GADAW | 861216 | 4.54 | 3 | | 1.09 | 1.06 | 550.0 | 4.49 | 39.7 | 10.1 |
| 2463 | GADAW | 861223 | 4.17 | | | 1.01 | 1.17 | 550.0 | 4.71 | 23.4 | 10.1 |
| 2499 | GADAW | 861230 | 3.86 | | | 1.04 | 1.07 | 454.0 | 4.46 | 41.7 | 14.5 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1910 | GADAW | 860603 | 0.035 | 0.173 | -0.010 | -0.029 | -0.012 | 1.811 | 3.055 | 0.889 | 0.103 |
| | | | 1.829 | 4.874 | -0.214 | -0.307 | -0.152 | 29.157 | 31.776 | 49.231 | 4.477 |
| 1975 | GADAW | 860701 | 0.020 | 0.200 | -0.006 | 0.037 | -0.014 | 1.642 | 3.999 | 0.227 | 0.105 |
| | | | 1.056 | 5.627 | -0.138 | 0.386 | -0.179 | 26.431 | 41.587 | 12.580 | 4.580 |
| 1987 | GADAW | 860708 | 0.040 | 0.766 | -0.003 | 0.034 | -0.018 | 2.006 | 3.222 | 0.437 | 0.477 |
| | | | 2.097 | 21.590 | -0.069 | 0.360 | -0.230 | 32.296 | 33.512 | 24.213 | 20.749 |
| 2020 | GADAW | 860722 | -0.003 | 0.150 | -0.009 | 0.042 | -0.005 | 3.234 | 4.269 | 1.177 | 0.048 |
| | | | -0.154 | 4.243 | -0.197 | 0.440 | -0.060 | 52.075 | 44.396 | 65.191 | 2.099 |
| 2052 | GADAW | 860729 | 0.050 | 0.252 | -0.017 | -0.063 | -0.012 | 3.915 | 7.837 | 0.429 | 0.109 |
| | | | 2.646 | 7.117 | -0.363 | -0.664 | -0.145 | 63.026 | 81.501 | 23.774 | 4.759 |
| 2063 | GADAW | 860805 | 0.039 | 0.337 | -0.009 | -0.057 | -0.015 | 2.915 | 6.320 | 0.314 | 0.096 |
| | | | 2.055 | 9.500 | -0.190 | -0.594 | -0.184 | 46.930 | 65.724 | 17.394 | 4.156 |
| 2083 | GADAW | 860812 | 0.074 | 0.394 | -0.004 | -0.026 | -0.022 | 3.684 | 5.580 | 1.546 | 0.213 |
| | | | 3.897 | 11.111 | -0.083 | -0.277 | -0.273 | 59.305 | 58.032 | 85.668 | 9.246 |
| 2103 | GADAW | 860819 | 0.038 | 0.275 | -0.004 | 0.025 | -0.016 | 2.234 | 2.192 | 0.760 | 0.193 |
| | | | 1.991 | 7.764 | -0.087 | 0.260 | -0.199 | 35.965 | 22.797 | 42.115 | 8.382 |
| 2120 | GADAW | 860827 | 0.008 | 0.098 | -0.027 | 0.048 | -0.004 | 0.873 | 1.274 | 0.185 | 0.045 |
| | | | 0.421 | 2.765 | -0.581 | 0.500 | -0.054 | 14.056 | 13.246 | 10.236 | 1.963 |
| 2136 | GADAW | 860902 | 0.015 | 0.186 | -0.019 | 0.043 | -0.003 | 1.434 | 2.589 | 0.575 | 0.070 |
| | | | 0.770 | 5.241 | -0.405 | 0.449 | -0.044 | 23.083 | 26.923 | 31.833 | 3.049 |
| 2155 | GADAW | 860909 | -0.004 | 0.069 | -0.008 | 0.025 | -0.029 | 0.255 | 1.096 | 0.065 | 0.037 |
| | | | -0.227 | 1.944 | -0.165 | 0.266 | -0.360 | 4.111 | 11.399 | 3.575 | 1.631 |
| 2193 | GADAW | 860916 | 0.016 | 0.278 | -0.009 | 0.025 | -0.015 | 1.128 | 2.552 | 0.468 | 0.126 |
| | | | 0.838 | 7.836 | -0.196 | 0.261 | -0.190 | 18.157 | 26.542 | 25.924 | 5.473 |
| 2252 | GADAW | 860923 | 0.019 | 0.321 | 0.000 | 0.036 | 0.000 | 1.467 | 1.685 | 0.878 | 0.237 |
| | | | 1.026 | 9.040 | 0.000 | 0.379 | 0.000 | 23.612 | 17.519 | 48.660 | 10.316 |
| 2253 | GADAW | 861007 | 0.007 | 0.099 | 0.000 | 0.038 | 0.000 | 0.939 | 1.947 | 0.249 | 0.031 |
| | | | 0.367 | 2.790 | 0.000 | 0.396 | 0.000 | 15.110 | 20.250 | 13.811 | 1.369 |
| 2267 | GADAW | 861022 | -0.007 | 0.075 | -0.006 | 0.074 | -0.019 | 0.352 | 0.744 | 0.077 | 0.039 |
| | | | -0.387 | 2.125 | -0.130 | 0.781 | -0.243 | 5.672 | 7.741 | 4.267 | 1.717 |
| 2295 | GADAW | 861028 | 0.045 | 3.605 | -0.023 | -0.025 | -0.080 | 6.532 | 4.534 | 0.765 | 2.325 |
| | | | 2.382 | 101.666 | -0.506 | -0.267 | -0.996 | 105.160 | 47.154 | 42.406 | 101.137 |
| 2301 | GADAW | 861106 | 0.018 | 0.437 | -0.021 | -0.025 | -0.065 | 1.420 | 3.097 | 0.376 | 0.234 |
| | | | 0.321 | 12.332 | -0.448 | -0.264 | -0.815 | 22.864 | 32.211 | 20.808 | 10.201 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2344 | GADAW | 861112 | 0.077 | 0.234 | 0.025 | 0.052 | -0.014 | 1.445 | 2.873 | 0.399 | 0.037 |
| | | | 4.050 | 6.593 | 0.538 | 0.545 | -0.175 | 23.335 | 29.880 | 22.121 | 1.593 |
| 2350 | GADAW | 861118 | -0.003 | 0.154 | 0.024 | 0.077 | -0.012 | 0.833 | 1.252 | 0.146 | 0.083 |
| | | | -0.155 | 4.341 | 0.516 | 0.807 | -0.156 | 13.415 | 13.018 | 8.071 | 3.598 |
| 2376 | GADAW | 861125 | -0.001 | 0.213 | 0.011 | -0.014 | -0.015 | 0.761 | 1.173 | 0.201 | 0.118 |
| | | | -0.030 | 6.005 | 0.246 | -0.152 | -0.187 | 12.251 | 12.201 | 11.143 | 5.143 |
| 2403 | GADAW | 861202 | -0.004 | 2.492 | -0.005 | 0.063 | 0.094 | 2.285 | 3.730 | 1.063 | 1.345 |
| | | | -0.222 | 70.283 | -0.107 | 0.665 | 1.175 | 36.780 | 38.795 | 58.863 | 58.527 |
| 2416 | GADAW | 861209 | -0.004 | 0.155 | -0.007 | 0.085 | -0.046 | 0.595 | 1.115 | 0.350 | 0.070 |
| | | | -0.229 | 4.360 | -0.145 | 0.889 | -0.575 | 9.579 | 11.597 | 19.416 | 3.042 |
| 2423 | GADAW | 861216 | -0.005 | 0.109 | -0.008 | 0.090 | 0.143 | 1.623 | 1.881 | 0.596 | 0.025 |
| | | | -0.240 | 3.067 | -0.173 | 0.944 | 1.787 | 26.124 | 19.562 | 32.999 | 1.078 |
| 2463 | GADAW | 861223 | -0.009 | 0.307 | -0.010 | -0.038 | -0.010 | 0.773 | 1.143 | 0.206 | 0.154 |
| | | | -0.478 | 8.669 | -0.208 | -0.400 | -0.119 | 12.449 | 11.891 | 11.403 | 6.695 |
| 2495 | GADAW | 861230 | -0.002 | 0.082 | -0.038 | 0.032 | 0.059 | 0.912 | 1.100 | 0.034 | 0.023 |
| | | | -0.082 | 2.319 | -0.818 | 0.337 | 0.741 | 14.684 | 11.443 | 1.887 | 1.009 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1910 | GADAW | 860603 | 0.112 | 0.177 | 0.023 |
| | | | 2.859 | 4.406 | 0.948 |
| 1975 | GADAW | 860701 | 0.056 | 0.112 | 0.019 |
| | | | 1.433 | 2.784 | 0.793 |
| 1987 | GADAW | 860708 | 0.117 | 0.576 | 0.115 |
| | | | 2.993 | 14.379 | 4.750 |
| 2028 | GADAW | 860722 | 0.036 | 0.095 | 0.015 |
| | | | 0.928 | 2.359 | 0.607 |
| 2052 | GADAW | 860729 | 0.038 | 0.448 | 0.043 |
| | | | 0.963 | 11.172 | 1.754 |
| 2063 | GADAW | 860805 | 0.034 | 0.178 | 0.028 |
| | | | 0.867 | 4.435 | 1.160 |
| 2083 | GADAW | 860812 | 0.096 | 0.171 | 0.034 |
| | | | 2.448 | 4.276 | 1.418 |
| 2103 | GADAW | 860819 | 0.133 | 0.162 | 0.046 |
| | | | 3.414 | 4.051 | 1.901 |
| 2128 | GADAW | 860827 | 0.015 | 0.037 | 0.010 |
| | | | 0.392 | 0.926 | 0.424 |
| 2136 | GADAW | 860902 | 0.034 | 0.054 | 0.012 |
| | | | 0.867 | 1.357 | 0.507 |
| 2155 | GADAW | 860909 | -0.005 | -0.025 | 0.007 |
| | | | -0.129 | -0.616 | 0.271 |
| 2193 | GADAW | 860916 | 0.020 | 0.034 | 0.020 |
| | | | 0.507 | 0.842 | 0.823 |
| 2252 | GADAW | 860923 | 0.092 | 0.187 | 0.041 |
| | | | 2.358 | 4.677 | 1.703 |
| 2253 | GADAW | 861007 | 0.008 | 0.002 | 0.005 |
| | | | 0.208 | 0.051 | 0.193 |
| 2267 | GADAW | 861022 | 0.004 | 0.004 | 0.004 |
| | | | 0.090 | 0.102 | 0.173 |
| 2295 | GADAW | 861028 | 0.178 | 0.255 | 0.279 |
| | | | 4.556 | 6.365 | 11.493 |
| 2301 | GADAW | 861106 | 0.026 | 0.051 | 0.029 |
| | | | 0.673 | 1.276 | 1.197 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2344 | GADAW | 861112 | 0.024 | 0.032 | 0.005 |
| | | | 0.622 | 0.807 | 0.190 |
| 2358 | GADAW | 861118 | 0.010 | 0.026 | 0.010 |
| | | | 0.266 | 0.659 | 0.402 |
| 2376 | GADAW | 861125 | 0.012 | 0.030 | 0.013 |
| | | | 0.302 | 0.751 | 0.550 |
| 2403 | GADAW | 861202 | 0.072 | 0.109 | 0.164 |
| | | | 1.844 | 2.710 | 6.749 |
| 2416 | GADAW | 861209 | 0.007 | -0.017 | 0.009 |
| | | | 0.179 | -0.420 | 0.364 |
| 2423 | GADAW | 861216 | 0.021 | -0.016 | 0.006 |
| | | | 0.534 | -0.409 | 0.249 |
| 2463 | GADAW | 861223 | 0.027 | 0.096 | 0.022 |
| | | | 0.683 | 2.390 | 0.887 |
| 2499 | GADAW | 861230 | 0.042 | 0.031 | 0.003 |
| | | | 1.067 | 0.773 | 0.134 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1568 | GADUF | 860107 | | 900 | 860114 | 900 | 860130 | 1 | 0.15 | 282.00 | 13.3 |
| 1579 | GADUF | 860121 | 2 | 900 | 860128 | 910 | 860204 | 2 | 0.25 | 361.00 | 26.6 |
| 1606 | GADUF | 860128 | | 900 | 860204 | 900 | 860212 | 1 | 0.08 | 126.00 | |
| 1672 | GADUF | 860211 | | 900 | 860218 | 900 | 860312 | 2 | 0.20 | 309.00 | 14.6 |
| 1673 | GADUF | 860218 | | 900 | 860225 | | 860312 | 1 | 0.03 | 60.00 | |
| 1674 | GADUF | 860225 | | 910 | 860304 | 930 | 860312 | 1 | 0.20 | 343.00 | 73.2 |
| 1694 | GADUF | 860311 | | 930 | 860318 | 900 | 860321 | 3 | 1.35 | 2236.00 | 10.0 |
| 1732 | GADUF | 860318 | | 900 | 860325 | | 860409 | 2 | 2.07 | 3481.00 | 9.0 |
| 1766 | GADUF | 860408 | | 1000 | 860415 | 900 | 860422 | 1 | | 366.00 | 58.0 |
| 1788 | GADUF | 860415 | | 900 | 860422 | 915 | 860501 | 1 | 0.20 | 374.00 | 23.5 |
| 1814 | GADUF | 860422 | | 915 | 860428 | | 860508 | 1 | 0.02 | 29.00 | |
| 1839 | GADUF | 860506 | | 900 | 860513 | 915 | 860521 | 1 | 0.75 | 1351.00 | 46.1 |
| 1843 | GADUF | 860513 | | 915 | 860520 | 930 | 860523 | 2 | 0.78 | 1278.00 | 24.4 |
| 1871 | GADUF | 860520 | | 930 | 860527 | 1000 | 860605 | 1 | 1.10 | 2097.00 | 51.6 |
| 1893 | GADUF | 860527 | | 1000 | 860603 | 930 | 860611 | 1 | 0.55 | 895.00 | 18.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1568 | GADUF | 860107 | 4.49 | 3 |  | 1.10 | 1.09 | 250.000 | 4.55 | 33.67 | 12.4 |
| 1579 | GADUF | 860121 | 4.10 | 3 | 3399 | 9999.00 | 9999.00 | 330.000 | 4.14 |  |  |
| 1606 | GADUF | 860128 |  | 3 | 21 | 1.03 | 1.01 | 120.000 | 4.06 | 100.00 | 64.8 |
| 1672 | GADUF | 860211 | 4.43 |  |  | 1.11 | 1.02 | 275.000 | 4.47 | 38.63 | 16.7 |
| 1673 | GADUF | 860218 |  |  |  | 1.14 | 1.09 | 42.000 | 3.85 |  | 68.0 |
| 1674 | GADUF | 860225 | 3.96 | 3 |  | 1.01 | 1.02 | 300.000 | 4.07 | 94.13 | 50.9 |
| 1694 | GADUF | 860311 | 4.89 |  |  | 0.97 | 1.10 | 525.000 | 4.92 | 17.34 | 7.5 |
| 1732 | GADUF | 860318 | 4.71 | 3 |  | 0.99 | 1.15 | 550.000 | 4.85 | 21.24 | 7.6 |
| 1766 | GADUF | 860408 | 3.91 | 3 | 34 | 1.05 | 1.01 | 300.000 | 3.93 | 128.13 | 63.7 |
| 1788 | GADUF | 860415 | 4.35 | 3 | 34 | 1.03 | 1.06 | 330.000 | 4.43 | 42.57 | 21.7 |
| 1814 | GADUF | 860422 |  |  |  | 1.00 | 1.18 | 25.000 | 4.27 |  | 30.4 |
| 1839 | GADUF | 860506 | 3.95 |  | 21 | 1.09 | 0.97 | 550.000 | 4.06 | 101.80 | 46.0 |
| 1843 | GADUF | 860513 | 4.47 | 3 | 34 | 1.02 | 1.04 | 550.000 | 4.55 | 34.00 | 23.4 |
| 1871 | GADUF | 860520 | 3.99 | 3 | 34 | 1.08 | 0.99 | 550.000 | 4.19 | 74.60 | 34.7 |
| 1893 | GADUF | 860527 | 4.56 | 3 | 34 | 0.99 | 1.05 | 550.000 | 4.56 | 34.50 | 17.1 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1568 | GADUF | 860107 | -0.009<br>-0.455 | 0.253<br>7.120 | -0.007<br>-0.144 | -0.042<br>-0.444 | -0.013<br>-0.158 | 0.550<br>8.860 | 1.216<br>12.646 | 0.043<br>2.384 | 0.130<br>5.647 |
| 1579 | GADUF | 860121 | | | | | | | | | |
| 1606 | GADUF | 860128 | 0.088<br>4.658 | 2.985<br>84.184 | -0.007<br>-0.152 | -0.014<br>-0.148 | -0.054<br>-0.681 | 5.676<br>91.378 | 5.885<br>61.208 | 0.903<br>50.054 | 1.768<br>76.924 |
| 1672 | GADUF | 860211 | 0.012<br>0.645 | 0.199<br>5.598 | -0.014<br>-0.313 | -0.058<br>-0.610 | -0.043<br>-0.535 | 1.088<br>17.517 | 1.574<br>16.368 | 0.121<br>6.722 | 0.115<br>4.994 |
| 1673 | GADUF | 860218 | 0.053<br>2.805 | 0.564<br>15.911 | -0.014<br>-0.315 | -0.059<br>-0.615 | -0.044<br>-0.548 | 3.723<br>59.944 | 8.600<br>89.437 | 0.963<br>53.360 | 0.269<br>11.718 |
| 1674 | GADUF | 860225 | 0.041<br>2.179 | 0.364<br>10.269 | 0.049<br>1.067 | -0.059<br>-0.619 | -0.045<br>-0.561 | 5.122<br>82.457 | 4.983<br>51.823 | 1.103<br>61.100 | 0.245<br>10.673 |
| 1694 | GADUF | 860311 | 0.007<br>0.368 | 0.207<br>5.839 | -0.011<br>-0.248 | -0.041<br>-0.427 | -0.065<br>-0.816 | 0.606<br>9.758 | 0.858<br>8.923 | 0.189<br>10.473 | 0.129<br>5.622 |
| 1732 | GADUF | 860318 | 0.010<br>0.549 | 0.264<br>7.435 | -0.017<br>-0.368 | 0.014<br>0.145 | -0.007<br>-0.093 | 0.400<br>6.443 | 0.893<br>9.287 | 0.131<br>7.248 | 0.154<br>6.708 |
| 1766 | GADUF | 860408 | 0.041<br>2.134 | 0.751<br>21.173 | -0.035<br>-0.756 | -0.032<br>-0.335 | -0.038<br>-0.472 | 3.055<br>49.179 | 7.341<br>76.344 | 0.850<br>47.076 | 0.381<br>16.575 |
| 1788 | GADUF | 860415 | 0.021<br>1.083 | 0.472<br>13.324 | -0.009<br>-0.187 | 0.010<br>0.104 | -0.009<br>-0.110 | 1.174<br>18.902 | 2.721<br>28.296 | 0.410<br>22.700 | 0.303<br>13.171 |
| 1814 | GADUF | 860422 | 0.092<br>4.851 | 0.972<br>27.422 | -0.017<br>-0.363 | 0.167<br>1.750 | -0.007<br>-0.087 | 2.331<br>37.529 | 3.714<br>38.626 | 0.322<br>17.844 | 0.715<br>31.088 |
| 1839 | GADUF | 860506 | 0.020<br>1.047 | 0.275<br>7.753 | -0.007<br>-0.151 | 0.026<br>0.269 | -0.014<br>-0.180 | 2.066<br>33.261 | 4.960<br>51.584 | 0.604<br>33.467 | 0.155<br>6.740 |
| 1843 | GADUF | 860513 | 0.024<br>1.274 | 0.433<br>12.210 | -0.009<br>-0.199 | 0.118<br>1.243 | -0.019<br>-0.238 | 1.606<br>25.851 | 3.416<br>35.531 | 1.040<br>57.607 | 0.278<br>12.110 |
| 1871 | GADUF | 860520 | 0.023<br>1.210 | 0.240<br>6.777 | -0.017<br>-0.371 | -0.010<br>-0.100 | -0.012<br>-0.145 | 2.061<br>33.185 | 3.694<br>38.415 | 0.509<br>28.213 | 0.088<br>3.842 |
| 1893 | GADUF | 860527 | 0.023<br>1.214 | 0.417<br>11.769 | -0.006<br>-0.126 | -0.019<br>-0.201 | -0.013<br>-0.165 | 1.521<br>24.494 | 1.672<br>17.389 | 0.412<br>22.829 | 0.218<br>9.471 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1568 | GADUF | 860107 | 0.019 | -0.041 | 0.014 |
| | | | 0.477 | -1.024 | 0.587 |
| 1579 | GADUF | 860121 | | | |
| 1606 | GADUF | 860128 | 0.157 | 1.105 | 0.255 |
| | | | 4.004 | 27.581 | 10.497 |
| 1672 | GADUF | 860211 | 0.031 | 0.075 | 0.011 |
| | | | 0.789 | 1.859 | 0.461 |
| 1673 | GADUF | 860218 | 0.050 | 0.296 | 0.058 |
| | | | 1.270 | 7.384 | 2.381 |
| 1674 | GADUF | 860225 | 0.128 | 0.631 | 0.073 |
| | | | 3.277 | 15.753 | 3.020 |
| 1694 | GADUF | 860311 | 0.037 | 0.083 | 0.020 |
| | | | 0.949 | 2.068 | 0.824 |
| 1732 | GADUF | 860318 | 0.048 | 0.055 | 0.022 |
| | | | 1.228 | 1.383 | 0.899 |
| 1766 | GADUF | 860408 | 0.240 | 0.389 | 0.099 |
| | | | 6.129 | 9.714 | 4.065 |
| 1788 | GADUF | 860415 | 0.094 | 0.164 | 0.053 |
| | | | 2.415 | 4.103 | 2.177 |
| 1814 | GADUF | 860422 | 0.381 | 0.587 | 0.134 |
| | | | 9.737 | 14.653 | 5.526 |
| 1839 | GADUF | 860506 | 0.047 | 0.081 | 0.031 |
| | | | 1.214 | 2.025 | 1.259 |
| 1843 | GADUF | 860513 | 0.273 | 0.098 | 0.035 |
| | | | 6.982 | 2.446 | 1.455 |
| 1871 | GADUF | 860520 | 0.069 | 0.192 | 0.021 |
| | | | 1.761 | 4.786 | 0.877 |
| 1893 | GADUF | 860527 | 0.083 | 0.155 | 0.040 |
| | | | 2.129 | 3.856 | 1.656 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2029 | GADUF | 860722 |  | 930 | 860729 | 1000 | 860807 | 1 | 0.15 | 296.00 | 60.5 |
| 2064 | GADUF | 860805 |  | 900 | 860812 | 930 | 860819 | 5 | 0.33 | 625.00 | 37.3 |
| 2093 | GADUF | 860812 |  | 930 | 860819 | 930 | 860828 | 2 | 1.50 | 2727.00 | 10.5 |
| 2119 | GADUF | 860902 |  | 900 | 860909 | 930 | 860912 | 2 | 1.00 | 1838.00 | 9.2 |
| 2129 | GADUF | 860826 |  | 915 | 860902 | 930 | 860915 | 4 | 2.25 | 3225.00 | 13.9 |
| 2143 | GADUF | 860819 |  | 930 | 860826 | 915 | 860918 | 2 | 0.79 | 1450.00 | 23.8 |
| 2202 | GADUF | 860923 |  | 930 | 860930 | 900 | 861007 | 1 | 0.15 | 268.00 | 53.5 |
| 2254 | GADUF | 861007 |  | 900 | 861014 | 930 | 861029 | 4 | 2.60 | 4513.00 | 15.4 |
| 2291 | GADUF | 861021 |  | 930 | 861028 | 930 | 861107 | 1 | 0.45 | 507.00 | 20.5 |
| 2292 | GADUF | 861028 |  | 930 | 861104 | 1000 | 861107 | 2 | 2.70 | 4698.00 | 7.5 |
| 2373 | GADUF | 861118 |  | 900 | 861125 | 930 | 861205 | 1 |  | 1571.00 | 5.9 |
| 2401 | GADUF | 861202 |  | 900 | 861209 | 900 | 861217 | 1 | 0.25 | 221.00 | 7.6 |
| 2456 | GADUF | 861223 |  | 915 | 861230 | 930 | 870108 | 1 | 1.30 | 2234.00 | 6.1 |
| 2510 | GADUF | 861230 |  | 915 | 870106 | 930 | 870122 | 3 | 2.62 | 4869.00 | 11.3 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2029 | GADUF | 860722 | 3.88 | 3 | 34 | 1.09 | 0.98 | 250.0 | 3.91 | 135.8 | 62.0 |
| 2064 | GADUF | 860805 | 4.10 | 3 |  | 1.04 | 1.09 | 550.0 | 4.13 | 86.3 | 33.9 |
| 2093 | GADUF | 860812 | 6.62 | 3 | 34 | 0.55 | 1.06 | 550.0 | 6.37 |  | 11.4 |
| 2119 | GADUF | 860902 | 4.65 |  | 34 | 1.03 | 1.16 | 500.0 | 4.67 | 26.2 | 8.8 |
| 2129 | GADUF | 860826 | 4.50 | 3 | 21 | 1.04 | 1.15 | 530.0 | 4.52 | 36.3 | 12.5 |
| 2143 | GADUF | 860819 | 4.31 |  |  | 1.05 | 1.12 | 520.0 | 4.29 | 56.4 | 22.3 |
| 2202 | GADUF | 860923 | 3.97 | 3 |  | 1.03 | 1.03 | 220.0 | 4.05 | 99.6 | 46.6 |
| 2254 | GADUF | 861007 | 4.55 |  |  | 1.06 | 1.13 | 500.0 | 4.56 | 34.0 | 12.5 |
| 2291 | GADUF | 861021 | 4.42 |  | 21 | 1.09 | 1.08 | 450.0 | 4.40 | 43.4 | 20.4 |
| 2292 | GADUF | 861028 | 4.87 |  | 34 | 1.10 | 1.28 | 550.0 | 4.94 | 15.0 | 5.1 |
| 2373 | GADUF | 861118 | 4.77 |  | 2131 | 1.06 | 1.18 | 550.0 | 4.83 | 20.4 | 7.8 |
| 2401 | GADUF | 861202 | 4.81 |  | 21 | 0.99 | 1.24 | 180.0 | 4.82 | 20.7 | 5.7 |
| 2456 | GADUF | 861223 |  |  |  | 0.97 | 1.23 | 550.0 | 4.81 | 19.0 | 7.0 |
| 2510 | GADUF | 861230 | 4.67 |  | 33 | 1.06 | 1.12 | 550.0 | 4.55 | 34.4 | 11.4 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2029 | GADUF | 860722 | 0.053 | 0.262 | -0.009 | 0.044 | -0.005 | 5.093 | 4.685 | 0.679 | 0.121 |
| | | | 2.788 | 7.394 | -0.204 | 0.457 | -0.058 | 81.997 | 48.726 | 37.612 | 5.245 |
| 2064 | GADUF | 860805 | 0.040 | 0.287 | -0.009 | -0.056 | -0.015 | 2.579 | 3.050 | 0.396 | 0.144 |
| | | | 2.113 | 8.097 | -0.186 | -0.583 | -0.188 | 41.515 | 31.716 | 21.942 | 6.280 |
| 2093 | GADUF | 860812 | 0.016 | 0.324 | -0.004 | 0.427 | -0.019 | 0.647 | 1.176 | 1.544 | 0.179 |
| | | | 0.845 | 9.136 | -0.095 | 4.483 | -0.234 | 10.424 | 12.230 | 85.520 | 7.786 |
| 2119 | GADUF | 860902 | 0.013 | 0.176 | 0.018 | 0.029 | -0.012 | 0.627 | 0.718 | 0.070 | 0.076 |
| | | | 0.687 | 4.951 | 0.399 | 0.302 | -0.149 | 10.088 | 7.470 | 3.865 | 3.321 |
| 2129 | GADUF | 860826 | 0.009 | 0.062 | -0.026 | 0.045 | -0.004 | 0.884 | 1.195 | 0.143 | 0.027 |
| | | | 0.491 | 1.761 | -0.562 | 0.468 | -0.053 | 14.232 | 12.431 | 7.901 | 1.176 |
| 2143 | GADUF | 860819 | 0.015 | 0.090 | -0.008 | 0.040 | -0.004 | 1.169 | 2.485 | 0.298 | 0.036 |
| | | | 0.797 | 2.548 | -0.175 | 0.417 | -0.050 | 18.819 | 25.844 | 16.496 | 1.547 |
| 2202 | GADUF | 860923 | 0.031 | 0.439 | -0.022 | 0.024 | -0.013 | 2.952 | 4.840 | 0.684 | 0.406 |
| | | | 1.621 | 12.384 | -0.484 | 0.248 | -0.157 | 47.519 | 50.339 | 37.871 | 17.659 |
| 2254 | GADUF | 861007 | 0.009 | 0.144 | 0.000 | 0.033 | 0.000 | 0.913 | 1.252 | 0.199 | 0.078 |
| | | | 0.452 | 4.073 | 0.000 | 0.344 | 0.000 | 14.703 | 13.019 | 11.039 | 3.386 |
| 2291 | GADUF | 861021 | 0.014 | 0.791 | -0.007 | 0.048 | -0.004 | 1.428 | 1.673 | 0.097 | 0.460 |
| | | | 0.725 | 22.300 | -0.151 | 0.499 | -0.051 | 22.985 | 17.399 | 5.394 | 19.994 |
| 2292 | GADUF | 861028 | -0.005 | 0.210 | -0.007 | 0.052 | -0.004 | 0.349 | 0.537 | 0.074 | 0.109 |
| | | | -0.247 | 5.915 | -0.158 | 0.546 | -0.051 | 5.612 | 5.580 | 4.119 | 4.749 |
| 2373 | GADUF | 861118 | 0.006 | 0.321 | 0.012 | 0.057 | -0.031 | 0.470 | 0.894 | 0.159 | 0.174 |
| | | | 0.302 | 9.042 | 0.268 | 0.597 | -0.390 | 7.567 | 9.294 | 8.819 | 7.575 |
| 2401 | GADUF | 861202 | -0.004 | 0.053 | -0.005 | 0.065 | -0.036 | 0.370 | 0.490 | 0.048 | 0.026 |
| | | | -0.224 | 1.508 | -0.109 | 0.686 | -0.449 | 5.956 | 5.094 | 2.641 | 1.141 |
| 2456 | GADUF | 861223 | -0.012 | 0.216 | -0.026 | -0.044 | -0.017 | 0.395 | 0.812 | 0.113 | 0.108 |
| | | | -0.612 | 6.087 | -0.561 | -0.464 | -0.210 | 6.355 | 8.443 | 6.238 | 4.713 |
| 2510 | GADUF | 861230 | -0.003 | 0.094 | -0.041 | 0.025 | 0.026 | 0.496 | 1.151 | 0.056 | 0.043 |
| | | | -0.139 | 2.650 | -0.882 | 0.263 | 0.325 | 7.983 | 11.971 | 3.104 | 1.880 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 2029 | GADUF | 860722 | 0.083 | 0.121 | 0.028 |
| | | | 2.133 | 3.011 | 1.142 |
| 2064 | GADUF | 860805 | 0.039 | 0.125 | 0.027 |
| | | | 0.991 | 3.120 | 1.111 |
| 2093 | GADUF | 860812 | 0.360 | 0.041 | 0.022 |
| | | | 9.206 | 1.014 | 0.908 |
| 2119 | GADUF | 860902 | 0.009 | 0.009 | 0.010 |
| | | | 0.242 | 0.236 | 0.403 |
| 2129 | GADUF | 860826 | 0.012 | 0.028 | 0.004 |
| | | | 0.309 | 0.705 | 0.184 |
| 2143 | GADUF | 860819 | 0.013 | 0.041 | 0.007 |
| | | | 0.331 | 1.035 | 0.304 |
| 2202 | GADUF | 860923 | 0.088 | 0.137 | 0.061 |
| | | | 2.251 | 3.424 | 2.490 |
| 2254 | GADUF | 861007 | 0.030 | 0.015 | 0.007 |
| | | | 0.772 | 0.376 | 0.303 |
| 2291 | GADUF | 861021 | 0.035 | 0.092 | 0.060 |
| | | | 0.908 | 2.304 | 2.452 |
| 2292 | GADUF | 861028 | 0.020 | 0.007 | 0.013 |
| | | | 0.503 | 0.177 | 0.520 |
| 2373 | GADUF | 861118 | 0.020 | 0.034 | 0.025 |
| | | | 0.524 | 0.850 | 1.019 |
| 2401 | GADUF | 861202 | 0.015 | 0.012 | 0.003 |
| | | | 0.389 | 0.304 | 0.115 |
| 2456 | GADUF | 861223 | 0.015 | 0.044 | 0.015 |
| | | | 0.374 | 1.109 | 0.610 |
| 2510 | GADUF | 861230 | 0.011 | -0.015 | 0.006 |
| | | | 0.282 | -0.368 | 0.239 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1570 | GAHIW | 860107 |  | 900 | 860121 | 1000 | 860130 |  |  | 1324.50 | 26.9 |
| 1598 | GAHIW | 860121 |  |  | 860204 | 1000 | 860210 |  |  | 860.00 | 24.7 |
| 1621 | GAHIW | 860204 |  |  | 860211 |  | 860221 | 2 | 0.83 | 1434.50 | 23.5 |
| 1640 | GAHIW | 860211 | 2 |  | 860218 | 900 | 860227 | 3 | 1.52 | 1916.00 | 20.6 |
| 1666 | GAHIW | 860225 |  |  | 860304 | 1000 | 860311 | 2 | 0.37 | 638.00 | 15.6 |
| 1695 | GAHIW | 860304 |  | 1000 | 860311 | 930 | 860321 | 2 | 0.50 | 870.00 | 17.9 |
| 1721 | GAHIW | 860311 |  | 930 | 860325 | 930 | 860401 | 6 | 3.56 | 5672.50 | 19.9 |
| 1757 | GAHIW | 860401 |  | 1000 | 860408 | 1030 | 860416 | 1 | 0.20 | 405.50 | 33.8 |
| 1779 | GAHIW | 860408 |  | 1030 | 860415 | 1000 | 860425 | 2 | 0.42 | 604.00 | 16.3 |
| 1789 | GAHIW | 860415 |  | 1000 | 860422 | 900 | 860501 | 5 | 0.59 | 991.50 | 37.5 |
| 1815 | GAHIW | 860422 |  | 900 | 860429 | 930 | 860508 | 3 | 0.24 | 371.00 | 24.4 |
| 1840 | GAHIW | 860506 |  | 1020 | 860513 | 911 | 860521 | 3 | 0.44 | 762.00 | 20.1 |
| 1859 | GAHIW | 860513 |  | 911 | 860520 | 930 | 860602 | 5 | 1.42 | 2786.50 | 28.6 |
| 1867 | GAHIW | 860520 |  | 930 | 860528 | 1300 | 860603 | 8 | 1.36 | 3580.00 | 23.9 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1570 | GAHIW | 860107 | 4.34 |  | 21 | 1.03 | 1.03 | 550.000 | 4.41 | 44.70 | 19.1 |
| 1598 | GAHIW | 860121 | 4.34 |  | 21 | 1.05 | 1.05 | 550.000 | 4.43 | 45.40 | 17.1 |
| 1621 | GAHIW | 860204 | 4.31 |  |  | 0.99 | 1.06 | 550.000 | 4.34 | 50.60 | 23.1 |
| 1640 | GAHIW | 860211 | 4.39 |  |  | 1.01 | 1.09 | 550.000 | 4.47 | 38.41 | 17.3 |
| 1666 | GAHIW | 860225 | 4.54 | 3 |  | 1.00 | 1.02 | 550.000 | 4.63 | 28.90 | 13.5 |
| 1695 | GAHIW | 860304 | 4.41 | 3 |  | 1.03 | 1.03 | 550.000 | 4.53 | 35.02 | 20.0 |
| 1721 | GAHIW | 860311 | 4.70 | 3 |  | 1.02 | 1.09 | 550.000 | 4.72 | 25.59 | 12.0 |
| 1757 | GAHIW | 860401 | 4.38 | 3 | 33 | 1.05 | 1.00 | 375.000 | 4.83 | 22.23 | 23.0 |
| 1779 | GAHIW | 860408 | 4.60 |  |  | 0.97 | 1.11 | 525.000 | 4.66 | 26.76 | 12.2 |
| 1789 | GAHIW | 860415 | 4.12 |  |  | 1.08 | 1.04 | 550.000 | 4.20 | 70.32 | 38.0 |
| 1815 | GAHIW | 860422 | 4.32 | 3 |  | 1.07 | 1.08 | 300.000 | 4.40 | 44.93 | 19.6 |
| 1840 | GAHIW | 860506 | 4.46 | 3 |  | 1.02 | 1.02 | 550.000 | 4.49 | 40.10 | 18.9 |
| 1859 | GAHIW | 860513 | 4.21 | 3 |  | 1.05 | 1.02 | 550.000 | 4.23 | 66.50 | 28.3 |
| 1867 | GAHIW | 860520 | 4.34 | 3 | 21 | 1.01 | 1.02 | 550.000 | 4.40 | 48.70 | 20.6 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1570 | GAHIU | 860107 | 0.009 | 0.358 | -0.006 | -0.031 | -0.006 | 0.981 | 1.770 | 0.213 | 0.201 |
| | | | 0.495 | 10.092 | -0.132 | -0.322 | -0.081 | 15.790 | 18.410 | 11.817 | 8.752 |
| 1598 | GAHIU | 860121 | 0.005 | 0.105 | -0.013 | 0.026 | -0.016 | 1.232 | 1.489 | 0.151 | 0.072 |
| | | | 0.263 | 2.971 | -0.284 | 0.275 | -0.203 | 19.838 | 15.483 | 8.351 | 3.127 |
| 1621 | GAHIU | 860204 | 0.007 | 0.549 | -0.008 | -0.019 | -0.044 | 1.412 | 2.144 | 0.288 | 0.309 |
| | | | 0.370 | 15.473 | -0.171 | -0.201 | -0.554 | 22.731 | 22.294 | 15.951 | 13.424 |
| 1640 | GAHIU | 860211 | 0.006 | 0.353 | -0.013 | -0.022 | -0.053 | 0.978 | 1.983 | 0.212 | 0.213 |
| | | | 0.292 | 9.941 | -0.277 | -0.226 | -0.669 | 15.741 | 20.622 | 11.737 | 9.266 |
| 1666 | GAHIU | 860225 | 0.008 | 0.050 | -0.014 | -0.056 | -0.037 | 1.116 | 1.447 | 0.312 | 0.024 |
| | | | 0.417 | 1.397 | -0.300 | -0.583 | -0.458 | 17.965 | 15.051 | 17.302 | 1.025 |
| 1695 | GAHIU | 860304 | 0.014 | 0.578 | -0.011 | -0.038 | -0.066 | 1.360 | 2.452 | 0.400 | 0.390 |
| | | | 0.745 | 16.300 | -0.239 | -0.402 | -0.831 | 21.903 | 25.502 | 22.147 | 16.963 |
| 1721 | GAHIU | 860311 | 0.012 | 0.290 | -0.013 | 0.037 | -0.067 | 0.898 | 1.495 | 0.248 | 0.178 |
| | | | 0.606 | 8.184 | -0.286 | 0.391 | -0.843 | 14.459 | 15.546 | 13.763 | 7.742 |
| 1757 | GAHIU | 860401 | 0.022 | 0.612 | -0.016 | 0.042 | -0.047 | 2.636 | 3.708 | 0.662 | 0.492 |
| | | | 1.164 | 17.271 | -0.357 | 0.443 | -0.585 | 42.444 | 38.567 | 36.669 | 21.409 |
| 1779 | GAHIU | 860408 | 0.012 | 0.114 | -0.057 | -0.016 | -0.024 | 0.729 | 1.726 | 0.236 | 0.084 |
| | | | 0.626 | 3.203 | -1.247 | -0.167 | -0.296 | 11.735 | 17.946 | 13.065 | 3.637 |
| 1789 | GAHIU | 860415 | 0.026 | 0.493 | -0.009 | 0.026 | -0.009 | 2.496 | 4.884 | 0.871 | 0.314 |
| | | | 1.342 | 13.903 | -0.194 | 0.276 | -0.109 | 40.184 | 50.790 | 48.241 | 13.663 |
| 1815 | GAHIU | 860422 | 0.015 | 0.185 | -0.017 | 0.016 | -0.007 | 0.868 | 2.477 | 0.275 | 0.107 |
| | | | 0.764 | 5.222 | -0.363 | 0.172 | -0.088 | 13.970 | 25.764 | 15.223 | 4.665 |
| 1840 | GAHIU | 860506 | 0.014 | 0.184 | -0.007 | 0.029 | -0.015 | 0.994 | 2.341 | 0.421 | 0.127 |
| | | | 0.737 | 5.175 | -0.155 | 0.302 | -0.191 | 16.011 | 24.351 | 23.306 | 5.523 |
| 1859 | GAHIU | 860513 | 0.009 | 0.215 | -0.019 | 0.010 | -0.018 | 1.339 | 2.923 | 0.272 | 0.117 |
| | | | 0.481 | 6.064 | -0.415 | 0.110 | -0.222 | 21.551 | 30.404 | 15.071 | 5.087 |
| 1867 | GAHIU | 860520 | 0.013 | 0.145 | -0.018 | -0.009 | -0.013 | 1.184 | 2.164 | 0.257 | 0.066 |
| | | | 0.689 | 4.079 | -0.384 | -0.091 | -0.167 | 19.066 | 22.503 | 14.222 | 2.886 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1570 | GAHIW | 860107 | 0.017 | -0.040 | 0.021 |
| | | | 0.444 | -0.986 | 0.870 |
| 1598 | GAHIW | 860121 | 0.017 | 0.058 | 0.007 |
| | | | 0.435 | 1.445 | 0.288 |
| 1621 | GAHIW | 860204 | 0.057 | 0.086 | 0.041 |
| | | | 1.469 | 2.157 | 1.668 |
| 1640 | GAHIW | 860211 | 0.086 | 0.141 | 0.031 |
| | | | 2.188 | 3.526 | 1.276 |
| 1666 | GAHIW | 860225 | 0.015 | 0.131 | 0.014 |
| | | | 0.374 | 3.269 | 0.595 |
| 1695 | GAHIW | 860304 | 0.049 | 0.254 | 0.061 |
| | | | 1.250 | 6.337 | 2.499 |
| 1721 | GAHIW | 860311 | 0.046 | 0.217 | 0.028 |
| | | | 1.184 | 5.414 | 1.140 |
| 1757 | GAHIW | 860401 | 0.286 | 0.823 | 0.136 |
| | | | 7.304 | 20.528 | 5.584 |
| 1779 | GAHIW | 860408 | 0.033 | 0.198 | 0.047 |
| | | | 0.837 | 4.929 | 1.948 |
| 1789 | GAHIW | 860415 | 0.117 | 0.286 | 0.061 |
| | | | 2.998 | 7.138 | 2.521 |
| 1815 | GAHIW | 860422 | 0.085 | 0.083 | 0.021 |
| | | | 2.164 | 2.081 | 0.858 |
| 1840 | GAHIW | 860506 | 0.068 | 0.103 | 0.028 |
| | | | 1.746 | 2.571 | 1.170 |
| 1859 | GAHIW | 860513 | 0.041 | 0.075 | 0.021 |
| | | | 1.059 | 1.872 | 0.850 |
| 1867 | GAHIW | 860520 | 0.047 | 0.181 | 0.019 |
| | | | 1.210 | 4.514 | 0.785 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

13-APR-87

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1911 | GANIW | 860528 |  | 1300 | 860603 | 930 | 860617 | 2 | 0.07 | 60.00 |  |
| 1936 | GANIW | 860603 |  | 930 | 860610 | 1030 | 860627 | 3 | 0.29 | 423.00 | 72.3 |
| 1951 | GANIW | 860610 |  | 1030 | 860624 | 930 | 860703 | 5 | 0.46 | 710.00 | 42.4 |
| 1960 | GANIW | 860624 |  | 930 | 860701 | 1000 | 860709 | 6 |  | 937.00 | 23.1 |
| 1972 | GANIW | 860701 |  | 1000 | 860708 | 945 | 860715 | 3 | 0.22 | 351.00 | 31.0 |
| 2009 | GANIW | 860708 |  | 945 | 860715 | 1000 | 860729 | 2 | 0.29 | 481.00 | 18.9 |
| 2024 | GANIW | 860722 |  | 930 | 860729 | 945 | 860804 | 5 | 1.30 | 2277.00 | 34.5 |
| 2082 | GANIW | 860729 |  | 945 | 860805 | 945 | 860822 | 2 | 0.29 | 410.00 | 25.7 |
| 2122 | GANIW | 860805 |  | 945 | 860826 | 930 | 860912 | 11 | 3.31 | 5792.00 | 21.2 |
| 2137 | GANIW | 860826 |  | 930 | 860909 | 1330 | 860917 | 7 | 2.65 | 4288.00 | 13.2 |
| 2151 | GANIW | 860909 |  | 1330 | 860916 | 1000 | 860922 | 5 | 0.88 | 1477.00 | 10.7 |
| 2235 | GANIW | 861007 |  | 930 | 861014 | 930 | 861023 | 8 | 2.96 | 4839.00 | 15.6 |
| 2240 | GANIW | 860916 |  |  | 860930 | 930 | 861027 | 5 | 0.50 | 750.00 | 20.9 |
| 2275 | GANIW | 861014 |  | 930 | 861028 | 920 | 861103 | 2 | 4.50 | 7631.50 | 8.3 |
| 2332 | GANIW | 861028 |  | 920 | 861118 | 1000 | 861125 | 9 |  | 4721.00 | 17.1 |
| 2366 | GANIW | 861118 |  | 1000 | 861125 | 900 | 861204 | 3 | 1.62 | 2881.00 | 11.8 |
| 2385 | GANIW | 861125 |  | 900 | 861202 | 930 | 861211 | 6 | 5.80 | 9917.50 | 7.4 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2424 | GAHIW | 861202 |  |  | 861209 | 930 | 870105 | 5 | 0.63 | 960.50 | 22.0 |
| 2425 | GAHIW | 861209 |  | 930 | 861216 | 930 | 870105 | 4 | 2.02 | 3245.50 | 19.3 |
| 2426 | GAHIW | 861216 |  | 930 | 861223 | 930 | 870105 | 2 | 0.20 | 362.00 | 47.2 |
| 2511 | GAHIW | 861223 |  | 930 | 870106 | 930 | 870122 | 3 |  | 4763.00 | 12.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1911 | GAHIW | 860520 |  | 3 |  | 0.97 | 0.99 | 60.0 | 4.50 |  | 26.5 |
| 1936 | GAHIW | 860603 | 3.82 | 3 | 21 | 1.05 | 0.99 | 440.0 | 3.87 | 149.7 | 74.8 |
| 1951 | GAHIW | 860610 | 4.09 |  |  | 1.04 | 0.99 | 550.0 | 4.12 | 86.9 | 43.3 |
| 1960 | GAHIW | 860624 | 4.30 |  | 21 | 1.04 | 1.04 | 550.0 | 4.35 | 52.6 | 20.4 |
| 1972 | GAHIW | 860701 | 4.17 | 3 |  | 1.05 | 1.03 | 310.0 | 4.20 | 72.5 | 29.3 |
| 2009 | GAHIW | 860708 | 4.56 | 3 |  | 1.00 | 1.06 | 425.0 | 4.70 | 23.0 | 13.3 |
| 2024 | GAHIW | 860722 | 4.15 |  | 34 | 1.03 | 0.99 | 550.0 | 4.15 | 78.9 | 34.4 |
| 2082 | GAHIW | 860729 | 4.35 | 4 | 3499 | 9999.00 | 9999.00 | 375.0 | 4.83 |  |  |
| 2122 | GAHIW | 860805 | 4.30 |  |  | 1.08 | 1.17 | 550.0 | 4.29 | 56.7 | 20.8 |
| 2137 | GAHIW | 860826 | 4.73 |  |  | 1.13 | 1.20 | 550.0 | 4.61 | 29.5 | 9.3 |
| 2151 | GAHIW | 860909 | 4.66 |  |  | 1.09 | 1.26 | 550.0 | 4.61 | 29.0 | 9.3 |
| 2235 | GAHIW | 861007 | 4.46 |  |  | 1.10 | 1.20 | 550.0 | 4.49 | 37.3 | 12.3 |
| 2240 | GAHIW | 860916 | 4.37 | 3 |  | 1.07 | 1.10 | 550.0 | 4.38 | 47.8 | 19.3 |
| 2275 | GAHIW | 861014 | 4.77 |  |  | 1.02 | 1.44 | 550.0 | 4.77 | 22.7 | 5.5 |
| 2332 | GAHIW | 861028 | 4.42 |  |  | 1.10 | 1.11 | 550.0 | 4.42 | 45.2 | 16.2 |
| 2366 | GAHIW | 861118 | 4.58 |  | 34 | 0.99 | 1.20 | 550.0 | 4.60 | 28.0 | 9.7 |
| 2385 | GAHIW | 861125 | 4.82 |  |  | 0.95 | 1.30 | 550.0 | 4.83 | 21.0 | 5.3 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN ueqiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2424 | GAHIW | 861202 | 4.24 | | | 1.06 | 1.04 | 550.0 | 4.28 | 57.1 | 27.7 |
| 2425 | GAHIW | 861209 | 4.45 | | 21 | 1.10 | 1.17 | 550.0 | 4.47 | 37.8 | 14.2 |
| 2426 | GAHIW | 861216 | 4.04 | | 21 | 1.06 | 1.03 | 330.0 | 4.06 | 93.6 | 40.6 |
| 2511 | GAHIW | 861223 | 4.65 | 3 | 21 | 1.05 | 1.11 | 560.0 | 4.72 | 23.7 | 9.2 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1911 | GAHIW | 860528 | 0.088 | 0.705 | -0.010 | -0.030 | -0.012 | 2.443 | 2.979 | 0.246 | 0.408 |
| | | | 4.649 | 19.889 | -0.218 | -0.313 | -0.152 | 39.339 | 30.981 | 13.649 | 17.762 |
| 1936 | GAHIW | 860603 | 0.045 | 0.578 | -0.010 | -0.017 | -0.019 | 4.096 | 8.313 | 1.548 | 0.267 |
| | | | 2.380 | 16.299 | -0.221 | -0.178 | -0.242 | 65.945 | 86.450 | 85.741 | 11.618 |
| 1951 | GAHIW | 860610 | 0.026 | 0.130 | -0.002 | 0.035 | -0.018 | 1.783 | 5.524 | 1.144 | 0.044 |
| | | | 1.383 | 3.676 | -0.037 | 0.365 | -0.230 | 28.702 | 57.449 | 63.367 | 1.933 |
| 1960 | GAHIW | 860624 | 0.016 | 0.085 | -0.008 | 0.031 | -0.004 | 1.032 | 2.021 | 0.171 | 0.044 |
| | | | 0.820 | 2.389 | -0.163 | 0.330 | -0.053 | 16.610 | 21.015 | 9.498 | 1.905 |
| 1972 | GAHIW | 860701 | 0.030 | 0.149 | -0.006 | 0.034 | -0.014 | 1.404 | 2.943 | 0.208 | 0.106 |
| | | | 1.570 | 4.198 | -0.125 | 0.352 | -0.179 | 22.603 | 30.602 | 11.547 | 4.631 |
| 2009 | GAHIW | 860708 | 0.022 | 0.539 | -0.001 | 0.043 | -0.011 | 1.281 | 1.480 | 0.231 | 0.358 |
| | | | 1.174 | 15.188 | -0.023 | 0.447 | -0.133 | 20.620 | 15.389 | 12.814 | 15.582 |
| 2024 | GAHIW | 860722 | 0.028 | 0.090 | -0.007 | 0.038 | -0.005 | 1.417 | 3.486 | 0.387 | 0.022 |
| | | | 1.488 | 2.535 | -0.160 | 0.403 | -0.067 | 22.807 | 36.251 | 21.431 | 0.948 |
| 2082 | GAHIW | 860729 | | | | | | | | | |
| 2122 | GAHIW | 860805 | 0.015 | 0.068 | -0.020 | -0.167 | -0.117 | 1.474 | 2.221 | 0.234 | 0.027 |
| | | | 0.804 | 1.927 | -0.440 | -1.752 | -1.469 | 23.723 | 23.100 | 12.958 | 1.161 |
| 2137 | GAHIW | 860826 | 0.009 | 0.053 | -0.017 | 0.043 | -0.003 | 0.583 | 0.930 | 0.046 | 0.018 |
| | | | 0.488 | 1.499 | -0.366 | 0.456 | -0.041 | 9.384 | 9.667 | 2.568 | 0.789 |
| 2151 | GAHIW | 860909 | 0.006 | 0.110 | -0.009 | 0.029 | -0.029 | 0.464 | 1.119 | 0.074 | 0.058 |
| | | | 0.341 | 3.103 | -0.189 | 0.303 | -0.361 | 7.466 | 11.640 | 4.117 | 2.526 |
| 2235 | GAHIW | 861007 | 0.007 | 0.083 | 0.000 | 0.037 | 0.000 | 0.615 | 1.325 | 0.053 | 0.035 |
| | | | 0.358 | 2.328 | 0.000 | 0.392 | 0.000 | 9.894 | 13.784 | 2.944 | 1.534 |
| 2240 | GAHIW | 860916 | 0.023 | 0.173 | 0.000 | 0.024 | 0.000 | 1.145 | 2.100 | 0.212 | 0.115 |
| | | | 1.217 | 4.865 | 0.000 | 0.249 | 0.000 | 18.426 | 21.840 | 11.723 | 4.990 |
| 2275 | GAHIW | 861014 | -0.010 | 0.049 | -0.004 | 0.077 | -0.021 | 0.304 | 0.667 | 0.076 | 0.024 |
| | | | -0.531 | 1.386 | -0.094 | 0.806 | -0.267 | 4.892 | 6.937 | 4.194 | 1.045 |
| 2332 | GAHIW | 861028 | -0.002 | 0.157 | -0.015 | 0.036 | 0.033 | 0.838 | 1.650 | 0.134 | 0.066 |
| | | | -0.100 | 4.417 | -0.328 | 0.373 | 0.418 | 13.499 | 17.157 | 7.400 | 2.884 |
| 2366 | GAHIW | 861118 | -0.001 | 0.107 | -0.011 | 0.026 | -0.007 | 0.616 | 0.899 | 0.062 | 0.052 |
| | | | -0.044 | 3.024 | -0.236 | 0.276 | -0.092 | 9.923 | 9.346 | 3.438 | 2.245 |
| 2385 | GAHIW | 861125 | -0.000 | 0.107 | 0.009 | -0.015 | -0.022 | 0.286 | 0.542 | 0.029 | 0.055 |
| | | | -0.016 | 3.022 | 0.197 | -0.161 | -0.281 | 4.609 | 5.640 | 1.591 | 2.393 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2424 | GAHIW | 861202 | -0.005<br>-0.241 | 1.234<br>34.794 | -0.008<br>-0.176 | 0.091<br>0.960 | -0.051<br>-0.642 | 1.218<br>19.615 | 2.244<br>23.338 | 0.129<br>7.150 | 0.671<br>29.198 |
| 2425 | GAHIW | 861209 | -0.005<br>-0.243 | 0.347<br>9.782 | -0.008<br>-0.179 | 0.088<br>0.922 | -0.052<br>-0.648 | 0.627<br>10.094 | 1.435<br>14.927 | 0.075<br>4.150 | 0.163<br>7.077 |
| 2426 | GAHIW | 861216 | -0.005<br>-0.244 | 0.471<br>13.271 | -0.008<br>-0.182 | 0.097<br>1.018 | -0.052<br>-0.655 | 2.634<br>42.411 | 3.238<br>33.675 | 0.185<br>10.260 | 0.090<br>3.908 |
| 2511 | GAHIW | 861223 | -0.003<br>-0.151 | 0.177<br>4.989 | -0.038<br>-0.833 | 0.022<br>0.231 | -0.010<br>-0.124 | 0.617<br>9.932 | 0.937<br>9.747 | 0.103<br>5.728 | 0.077<br>3.368 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1911 | GAHIW | 860528 | 0.301 | 1.021 | 0.099 |
| | | | 7.691 | 25.469 | 4.078 |
| 1936 | GAHIW | 860603 | 0.149 | 0.159 | 0.046 |
| | | | 3.817 | 3.965 | 1.887 |
| 1951 | GAHIW | 860610 | 0.020 | 0.036 | 0.010 |
| | | | 0.499 | 0.893 | 0.412 |
| 1960 | GAHIW | 860624 | 0.014 | 0.073 | 0.012 |
| | | | 0.347 | 1.827 | 0.510 |
| 1972 | GAHIW | 860701 | 0.040 | 0.093 | 0.023 |
| | | | 1.024 | 2.330 | 0.950 |
| 2009 | GAHIW | 860708 | 0.061 | 0.337 | 0.075 |
| | | | 1.569 | 8.420 | 3.076 |
| 2024 | GAHIW | 860722 | 0.017 | 0.074 | 0.007 |
| | | | 0.437 | 1.836 | 0.300 |
| 2082 | GAHIW | 860729 | | | |
| 2122 | GAHIW | 860805 | 0.011 | 0.026 | 0.006 |
| | | | 0.290 | 0.641 | 0.250 |
| 2137 | GAHIW | 860826 | 0.014 | -0.027 | 0.005 |
| | | | 0.369 | -0.674 | 0.202 |
| 2151 | GAHIW | 860909 | 0.019 | -0.025 | 0.010 |
| | | | 0.493 | -0.623 | 0.413 |
| 2235 | GAHIW | 861007 | 0.024 | 0.006 | 0.003 |
| | | | 0.614 | 0.158 | 0.105 |
| 2240 | GAHIW | 860916 | 0.040 | 0.078 | 0.020 |
| | | | 1.035 | 1.957 | 0.828 |
| 2275 | GAHIW | 861014 | 0.005 | -0.003 | 0.000 |
| | | | 0.117 | -0.080 | 0.001 |
| 2332 | GAHIW | 861028 | 0.016 | -0.016 | 0.009 |
| | | | 0.404 | -0.388 | 0.357 |
| 2366 | GAHIW | 861118 | 0.012 | 0.026 | 0.006 |
| | | | 0.302 | 0.649 | 0.245 |
| 2385 | GAHIW | 861125 | 0.034 | -0.011 | 0.007 |
| | | | 0.870 | -0.273 | 0.307 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2424 | GAHIW | 861202 | 0.040<br>1.024 | 0.051<br>1.271 | 0.080<br>3.287 |
| 2425 | GAHIW | 861209 | 0.033<br>0.844 | 0.007<br>0.176 | 0.021<br>0.367 |
| 2426 | GAHIW | 861216 | 0.370<br>9.467 | 0.104<br>2.596 | 0.043<br>1.778 |
| 2511 | GAHIW | 861223 | 0.061<br>1.562 | 0.061<br>1.523 | 0.011<br>0.462 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1563 | GASUM | 860114 |  | 900 | 860121 | 900 | 860129 | 1 | 0.51 | 875.50 | 31.2 |
| 1580 | GASUM | 860121 | 2 | 900 | 860128 | 900 | 860204 | 1 | 0.88 | 1464.00 | 49.3 |
| 1633 | GASUM | 860204 |  | 930 | 860211 | 900 | 860224 | 4 | 0.50 | 968.50 | 29.7 |
| 1634 | GASUM | 860211 |  | 900 | 860218 | 900 | 860224 | 2 | 2.45 | 4194.00 | 16.6 |
| 1667 | GASUM | 860218 |  | 900 | 860225 | 900 | 860311 | 1 | 0.05 | 105.00 | 35.1 |
| 1677 | GASUM | 860225 |  | 900 | 860304 | 900 | 860312 | 2 | 0.10 | 147.00 | 42.3 |
| 1689 | GASUM | 860304 |  | 900 | 860311 | 820 | 860319 | 1 | 0.10 | 186.00 | 33.4 |
| 1742 | GASUM | 860311 |  | 820 | 860318 | 900 | 860411 | 3 | 1.61 | 2813.00 | 21.3 |
| 1743 | GASUM | 860318 |  | 900 | 860325 | 900 | 860411 | 1 | 0.80 | 1473.00 | 15.4 |
| 1758 | GASUM | 860401 |  | 900 | 860408 | 1300 | 860416 | 2 | 1.45 | 2450.00 | 21.5 |
| 1767 | GASUM | 860408 |  | 1300 | 860415 | 900 | 860422 | 1 | 0.07 | 122.50 | 45.0 |
| 1816 | GASUM | 860415 |  | 900 | 860422 | 930 | 860508 | 2 | 0.45 | 882.50 | 24.0 |
| 1817 | GASUM | 860422 |  | 930 | 860429 | 900 | 860508 | 1 | 0.08 | 136.50 |  |
| 1857 | GASUM | 860513 |  | 900 | 860520 | 900 | 860529 | 3 | 0.90 | 1799.00 | 14.9 |
| 1860 | GASUM | 860506 |  | 900 | 860513 | 900 | 860602 | 3 | 0.90 | 1646.00 | 37.6 |
| 1876 | GASUM | 860520 |  | 900 | 860527 | 900 | 860606 | 3 | 1.25 | 2417.00 | 36.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1563 | GASUM | 860114 | 4.24 |  |  | 1.08 | 1.01 | 510.000 | 4.20 | 69.92 | 32.8 |
| 1580 | GASUM | 860121 | 4.24 |  |  | 1.03 | 1.02 | 550.000 | 4.24 | 68.80 | 26.9 |
| 1633 | GASUM | 860204 | 4.33 |  |  | 1.02 | 1.06 | 500.000 | 4.27 | 57.62 | 26.0 |
| 1634 | GASUM | 860211 | 4.52 |  |  | 1.05 | 1.13 | 525.000 | 4.58 | 31.54 | 12.1 |
| 1667 | GASUM | 860218 | 4.32 |  |  | 1.03 | 0.99 | 40.000 | 4.30 |  | 31.9 |
| 1677 | GASUM | 860225 | 4.40 | 3 |  | 1.27 | 0.84 | 75.000 | 4.67 | 28.04 | 31.3 |
| 1689 | GASUM | 860304 | 4.22 | 3 |  | 1.32 | 1.07 | 75.000 | 4.42 | 45.38 | 25.5 |
| 1742 | GASUM | 860311 | 4.32 |  |  | 1.07 | 1.09 | 510.000 | 4.46 | 38.96 | 17.3 |
| 1743 | GASUM | 860318 | 4.52 | 3 |  | 1.02 | 1.12 | 475.000 | 4.73 | 23.74 | 12.3 |
| 1758 | GASUM | 860401 | 4.02 | 3 |  | 0.93 | 1.09 | 425.000 | 4.93 | 19.73 | 12.4 |
| 1767 | GASUM | 860408 | 4.45 | 23 | 99 | 9999.00 | 9999.00 | 75.000 | 5.66 |  |  |
| 1816 | GASUM | 860415 | 4.34 |  |  | 0.98 | 1.13 | 500.000 | 4.45 | 40.10 | 18.7 |
| 1817 | GASUM | 860422 |  | 3 |  | 0.89 | 1.06 | 130.000 | 4.79 | 22.78 | 19.9 |
| 1857 | GASUM | 860513 | 4.63 |  |  | 1.01 | 1.15 | 500.000 | 4.70 | 23.60 | 10.7 |
| 1860 | GASUM | 860506 | 4.16 | 3 |  | 1.04 | 1.02 | 500.000 | 4.34 | 52.70 | 30.6 |
| 1876 | GASUM | 860520 | 4.18 | 3 |  | 1.05 | 1.03 | 490.000 | 4.18 | 75.40 | 32.0 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1563 | GASUM | 860114 | 0.012 | 0.762 | -0.007 | -0.046 | -0.017 | 2.061 | 2.799 | 0.363 | 0.312 |
| | | | 0.620 | 21.481 | -0.159 | -0.481 | -0.214 | 33.178 | 29.109 | 20.133 | 13.557 |
| 1580 | GASUM | 860121 | 0.021 | 0.266 | -0.013 | -0.009 | 0.100 | 1.735 | 2.120 | 0.281 | 0.106 |
| | | | 1.087 | 7.503 | -0.282 | -0.099 | 1.252 | 27.941 | 22.050 | 15.547 | 4.593 |
| 1633 | GASUM | 860204 | 0.019 | 0.417 | -0.012 | -0.022 | -0.050 | 1.344 | 2.644 | 0.334 | 0.192 |
| | | | 1.000 | 11.763 | -0.259 | -0.231 | -0.621 | 21.644 | 27.493 | 18.478 | 8.370 |
| 1634 | GASUM | 860211 | 0.003 | 0.234 | -0.012 | -0.022 | -0.050 | 0.570 | 1.423 | 0.152 | 0.108 |
| | | | 0.154 | 6.601 | -0.262 | -0.230 | -0.628 | 9.178 | 14.799 | 8.438 | 4.707 |
| 1667 | GASUM | 860218 | 0.025 | 0.175 | 0.062 | -0.056 | -0.038 | 2.940 | 3.458 | 0.662 | 0.085 |
| | | | 1.304 | 4.926 | 1.352 | -0.588 | -0.471 | 47.337 | 35.965 | 36.694 | 3.678 |
| 1677 | GASUM | 860225 | 0.032 | 0.385 | -0.014 | -0.627 | -0.057 | 3.607 | 4.162 | 1.484 | 0.276 |
| | | | 1.685 | 10.866 | -0.311 | -6.581 | -0.716 | 58.075 | 43.285 | 82.203 | 12.014 |
| 1689 | GASUM | 860304 | 0.042 | 0.772 | -0.012 | 0.531 | -0.063 | 2.050 | 2.967 | 0.446 | 0.521 |
| | | | 2.221 | 21.769 | -0.264 | 5.574 | -0.791 | 33.000 | 30.852 | 24.729 | 22.666 |
| 1742 | GASUM | 860311 | 0.010 | 0.277 | -0.012 | -0.023 | -0.047 | 0.908 | 2.095 | 0.170 | 0.124 |
| | | | 0.526 | 7.813 | -0.263 | -0.241 | -0.585 | 14.613 | 21.784 | 9.421 | 5.387 |
| 1743 | GASUM | 860318 | 0.007 | 0.711 | -0.012 | -0.024 | -0.047 | 0.602 | 1.552 | 0.263 | 0.427 |
| | | | 0.344 | 20.045 | -0.269 | -0.247 | -0.585 | 9.690 | 16.143 | 14.558 | 18.578 |
| 1758 | GASUM | 860401 | 0.009 | 0.397 | -0.017 | -0.034 | -0.047 | 1.479 | 1.607 | 0.674 | 0.294 |
| | | | 0.468 | 11.195 | -0.368 | -0.361 | -0.585 | 23.811 | 16.713 | 37.312 | 12.780 |
| 1767 | GASUM | 860408 | | | | | | | | | |
| 1816 | GASUM | 860415 | 0.016 | 0.125 | -0.017 | 0.022 | -0.007 | 1.251 | 2.491 | 0.499 | 0.074 |
| | | | 0.859 | 3.528 | -0.364 | 0.227 | -0.089 | 20.139 | 25.905 | 27.654 | 3.230 |
| 1817 | GASUM | 860422 | 0.019 | 0.570 | -0.017 | 0.014 | -0.007 | 2.317 | 2.530 | 1.395 | 0.179 |
| | | | 1.024 | 16.063 | -0.365 | 0.149 | -0.090 | 37.298 | 26.308 | 77.285 | 7.767 |
| 1857 | GASUM | 860513 | 0.010 | 0.200 | -0.014 | 0.035 | -0.009 | 0.878 | 1.259 | 0.262 | 0.111 |
| | | | 0.542 | 5.636 | -0.297 | 0.364 | -0.117 | 14.136 | 13.090 | 14.523 | 4.827 |
| 1860 | GASUM | 860506 | 0.020 | 0.546 | -0.019 | 0.015 | -0.017 | 2.214 | 3.759 | 0.880 | 0.336 |
| | | | 1.056 | 15.406 | -0.412 | 0.152 | -0.216 | 35.642 | 39.095 | 48.727 | 14.599 |
| 1876 | GASUM | 860520 | 0.013 | 0.189 | -0.016 | -0.011 | -0.009 | 1.419 | 3.563 | 0.356 | 0.080 |
| | | | 0.691 | 5.320 | -0.353 | -0.113 | -0.112 | 22.839 | 37.057 | 19.709 | 3.488 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1563 | GASUM | 860114 | 0.030 | 0.092 | 0.041 |
| | | | 0.776 | 2.305 | 1.681 |
| 1580 | GASUM | 860121 | 0.017 | 0.008 | 0.014 |
| | | | 0.431 | 0.211 | 0.594 |
| 1633 | GASUM | 860204 | 0.024 | 0.109 | 0.021 |
| | | | 0.626 | 2.730 | 0.848 |
| 1634 | GASUM | 860211 | 0.019 | 0.065 | 0.008 |
| | | | 0.486 | 1.617 | 0.312 |
| 1667 | GASUM | 860218 | 0.051 | 0.586 | 0.027 |
| | | | 1.312 | 14.619 | 1.111 |
| 1677 | GASUM | 860225 | 0.037 | 0.039 | 0.063 |
| | | | 0.955 | 0.973 | 2.594 |
| 1689 | GASUM | 860304 | 0.025 | 0.228 | 0.066 |
| | | | 0.640 | 5.699 | 2.708 |
| 1742 | GASUM | 860311 | 0.028 | 0.202 | 0.026 |
| | | | 0.718 | 5.035 | 1.062 |
| 1743 | GASUM | 860318 | 0.055 | 0.075 | 0.053 |
| | | | 1.415 | 1.882 | 2.171 |
| 1758 | GASUM | 860401 | 0.094 | 0.124 | 0.044 |
| | | | 2.411 | 3.087 | 1.818 |
| 1767 | GASUM | 860408 | | | |
| 1816 | GASUM | 860415 | 0.064 | 0.178 | 0.023 |
| | | | 1.640 | 4.446 | 0.955 |
| 1817 | GASUM | 860422 | 0.267 | 0.189 | 0.037 |
| | | | 6.842 | 4.713 | 1.506 |
| 1857 | GASUM | 860513 | 0.028 | 0.114 | 0.020 |
| | | | 0.710 | 2.846 | 0.816 |
| 1860 | GASUM | 860506 | 0.057 | 0.210 | 0.057 |
| | | | 1.459 | 5.239 | 2.354 |
| 1876 | GASUM | 860520 | 0.029 | 0.136 | 0.018 |
| | | | 0.742 | 3.389 | 0.736 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968 | GASUM | 860611 |  | 900 | 860625 | 900 | 860714 | 1 | 0.30 | 478.80 | 35.9 |
| 1978 | GASUM | 860701 |  | 930 | 860708 | 1200 | 860717 | 2 | 0.55 | 991.70 | 14.1 |
| 1979 | GASUM | 860708 |  | 1200 | 860715 | 900 | 860717 | 3 | 0.33 | 572.00 | 15.0 |
| 1982 | GASUM | 860625 |  | 900 | 860701 | 930 | 860718 | 3 | 0.65 | 1202.30 | 24.6 |
| 1995 | GASUM | 860527 |  | 900 | 860604 | 900 | 860725 | 4 | 2.21 | 3851.00 | 28.6 |
| 1996 | GASUM | 860604 |  | 900 | 860611 | 900 | 860725 | 2 | 0.44 | 797.50 | 14.8 |
| 2030 | GASUM | 860722 |  | 900 | 860729 | 900 | 860807 | 2 | 1.96 | 3474.00 | 66.6 |
| 2057 | GASUM | 860729 |  | 900 | 860805 | 900 | 860815 | 1 | 0.70 | 1235.60 | 53.1 |
| 2058 | GASUM | 860805 |  | 900 | 860812 | 900 | 860815 | 4 | 1.58 | 2848.90 | 15.7 |
| 2094 | GASUM | 860812 |  | 900 | 860819 | 830 | 860828 | 2 | 0.50 | 890.80 | 18.7 |
| 2120 | GASUM | 860826 |  | 900 | 860902 | 900 | 860912 | 5 | 3.04 | 5231.30 | 36.1 |
| 2152 | GASUM | 860902 |  | 900 | 860909 | 1815 | 860922 | 3 | 1.14 | 1925.90 | 26.6 |
| 2156 | GASUM | 860909 |  | 1815 | 860916 | 900 | 860924 | 1 | 0.51 | 934.40 | 7.9 |
| 2183 | GASUM | 860819 |  | 830 | 860826 | 900 | 860926 | 3 | 0.24 | 390.30 | 38.8 |
| 2236 | GASUM | 861007 |  | 1100 | 861014 | 900 | 861023 | 4 | 2.80 | 4715.30 | 21.9 |
| 2268 | GASUM | 860916 |  | 900 | 860923 | 900 | 861031 | 2 | 0.16 | 313.20 | 44.9 |
| 2304 | GASUM | 861021 |  | 900 | 861028 | 900 | 861119 | 2 | 3.60 | 6086.00 | 17.9 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2305 | GASUM | 861104 | | 900 | 861112 | 830 | 861119 | 5 | 1.43 | 2463.00 | 23.6 |
| 2476 | GASUM | 861209 | | 900 | 861216 | 930 | 870114 | 4 | 0.88 | 1480.10 | 13.8 |
| 2477 | GASUM | 861216 | | 930 | 861230 | 900 | 870114 | 3 | 1.33 | 2261.10 | 14.6 |
| 2514 | GASUM | 861112 | | 830 | 861118 | 900 | 870122 | 5 | 0.31 | 513.70 | 43.9 |
| 2515 | GASUM | 861118 | | 900 | 861125 | 900 | 870122 | 4 | 3.57 | 6302.90 | 23.1 |
| 2516 | GASUM | 861125 | | 900 | 861202 | 815 | 870122 | 5 | 2.28 | 3914.80 | 13.8 |
| 2517 | GASUM | 861202 | | 815 | 861209 | 900 | 870122 | 2 | 0.53 | 878.20 | 48.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968 | GASUM | 860611 | 4.09 | | | 1.07 | 1.11 | 390.0 | 4.39 | 46.1 | 18.2 |
| 1978 | GASUM | 860701 | 4.65 | 3 | | 1.03 | 1.10 | 525.0 | 4.66 | 25.8 | 12.4 |
| 1979 | GASUM | 860708 | 4.92 | 3 | | 0.96 | 1.05 | 525.0 | 4.95 | 20.6 | 14.1 |
| 1982 | GASUM | 860625 | 4.31 | | | 1.07 | 1.03 | 500.0 | 4.29 | 61.0 | 25.6 |
| 1995 | GASUM | 860527 | 4.08 | | | 1.04 | 1.03 | 500.0 | 4.22 | 68.2 | 29.0 |
| 1996 | GASUM | 860604 | 4.47 | | | 1.02 | 1.11 | 500.0 | 4.62 | 29.1 | 12.5 |
| 2030 | GASUM | 860722 | 3.89 | | | 1.06 | 0.97 | 550.0 | 3.84 | 157.1 | 69.4 |
| 2057 | GASUM | 860729 | 4.30 | | | 1.03 | 1.01 | 525.0 | 3.97 | 121.9 | 53.0 |
| 2058 | GASUM | 860805 | 4.48 | | | 1.01 | 1.11 | 540.0 | 4.51 | 34.4 | 13.9 |
| 2094 | GASUM | 860812 | 4.40 | | | 1.12 | 1.18 | 550.0 | 4.37 | 47.5 | 16.7 |
| 2120 | GASUM | 860826 | 4.14 | | | 1.12 | 1.14 | 525.0 | 4.11 | 84.8 | 31.8 |
| 2152 | GASUM | 860902 | 4.27 | | | 1.07 | 1.12 | 525.0 | 4.24 | 62.7 | 23.9 |
| 2156 | GASUM | 860909 | 4.71 | | | 1.01 | 1.31 | 475.0 | 4.79 | 21.1 | 6.1 |
| 2183 | GASUM | 860819 | 4.02 | | | 1.05 | 1.04 | 340.0 | 4.08 | 90.4 | 36.6 |
| 2236 | GASUM | 861007 | 4.40 | | | 1.10 | 1.14 | 550.0 | 4.33 | 52.6 | 18.6 |
| 2268 | GASUM | 860916 | 4.04 | 3 | | 1.14 | 1.04 | 250.0 | 4.06 | 99.2 | 40.6 |
| 2304 | GASUM | 861021 | 4.40 | | | 1.03 | 1.10 | 525.0 | 4.43 | 42.2 | 15.7 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2305 | GASUM | 861104 | 4.14 | 3 | | 1.02 | 1.14 | 550.0 | 4.30 | 51.9 | 20.4 |
| 2476 | GASUM | 861209 | 4.53 | | | 1.10 | 1.17 | 525.0 | 4.60 | 31.1 | 10.8 |
| 2477 | GASUM | 861216 | 4.31 | 3 | | 1.06 | 1.12 | 525.0 | 4.46 | 39.9 | 15.7 |
| 2514 | GASUM | 861112 | 3.99 | 3 | | 1.05 | 1.02 | 400.0 | 4.03 | 103.1 | 41.9 |
| 2515 | GASUM | 861118 | 4.33 | 3 | | 1.07 | 1.06 | 550.0 | 4.31 | 55.5 | 21.8 |
| 2516 | GASUM | 861125 | 4.50 | | | 1.08 | 1.12 | 550.0 | 4.55 | 32.7 | 12.3 |
| 2517 | GASUM | 861202 | 4.06 | 3 | | 1.03 | 0.97 | 550.0 | 4.10 | 88.8 | 45.3 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1968 | GASUM | 860611 | 0.015 | 0.191 | -0.005 | 0.046 | -0.002 | 0.713 | 2.124 | 0.155 | 0.128 |
| | | | 0.774 | 5.390 | -0.109 | 0.481 | -0.030 | 11.474 | 22.087 | 8.611 | 5.569 |
| 1978 | GASUM | 860701 | 0.013 | 0.110 | -0.007 | 0.037 | -0.014 | 1.191 | 1.403 | 0.332 | 0.077 |
| | | | 0.677 | 3.098 | -0.155 | 0.392 | -0.180 | 19.169 | 14.595 | 18.396 | 3.336 |
| 1979 | GASUM | 860708 | 0.018 | 0.777 | -0.007 | 0.039 | -0.012 | 1.667 | 1.572 | 0.463 | 0.473 |
| | | | 0.933 | 21.905 | -0.156 | 0.414 | -0.155 | 26.841 | 16.350 | 25.650 | 20.583 |
| 1982 | GASUM | 860625 | 0.022 | 0.133 | -0.007 | 0.040 | -0.012 | 1.694 | 2.575 | 0.318 | 0.091 |
| | | | 1.132 | 3.759 | -0.143 | 0.416 | -0.144 | 27.275 | 26.777 | 17.621 | 3.969 |
| 1995 | GASUM | 860527 | 0.012 | 0.208 | -0.002 | 0.042 | -0.016 | 1.218 | 3.162 | 0.223 | 0.104 |
| | | | 0.619 | 5.871 | -0.053 | 0.444 | -0.195 | 19.602 | 32.887 | 12.361 | 4.509 |
| 1996 | GASUM | 860604 | 0.014 | 0.104 | -0.002 | 0.044 | -0.015 | 1.099 | 1.326 | 0.362 | 0.056 |
| | | | 0.760 | 2.933 | -0.051 | 0.459 | -0.191 | 17.691 | 13.795 | 20.068 | 2.429 |
| 2030 | GASUM | 860722 | 0.045 | 0.130 | -0.010 | 0.034 | -0.005 | 2.743 | 6.813 | 0.574 | 0.020 |
| | | | 2.389 | 3.670 | -0.212 | 0.358 | -0.057 | 44.169 | 70.856 | 31.818 | 0.879 |
| 2057 | GASUM | 860729 | 0.044 | 0.167 | -0.010 | -0.063 | -0.013 | 2.627 | 5.733 | 0.457 | 0.074 |
| | | | 2.327 | 4.695 | -0.215 | -0.657 | -0.159 | 42.297 | 59.619 | 25.343 | 3.217 |
| 2058 | GASUM | 860805 | 0.014 | 0.100 | -0.010 | -0.062 | -0.013 | 1.033 | 1.314 | 0.192 | 0.051 |
| | | | 0.763 | 2.818 | -0.211 | -0.646 | -0.164 | 16.628 | 13.670 | 10.663 | 2.207 |
| 2094 | GASUM | 860812 | 0.017 | 0.087 | -0.004 | 0.146 | -0.018 | 0.735 | 1.839 | -0.018 | 0.026 |
| | | | 0.884 | 2.464 | -0.097 | 1.530 | -0.228 | 11.841 | 19.126 | -0.972 | 1.137 |
| 2120 | GASUM | 860826 | 0.022 | 0.169 | -0.020 | -0.161 | -0.114 | 1.801 | 3.397 | 0.238 | 0.043 |
| | | | 1.166 | 4.759 | -0.431 | -1.691 | -1.426 | 29.000 | 35.331 | 13.175 | 1.886 |
| 2152 | GASUM | 860902 | 0.017 | 0.120 | -0.008 | 0.027 | -0.029 | 1.207 | 2.499 | 0.218 | 0.021 |
| | | | 0.881 | 3.390 | -0.177 | 0.283 | -0.361 | 19.439 | 25.991 | 12.062 | 0.892 |
| 2156 | GASUM | 860909 | 0.007 | 0.079 | -0.007 | 0.027 | -0.029 | 0.317 | 0.779 | 0.071 | 0.049 |
| | | | 0.344 | 2.236 | -0.161 | 0.281 | -0.360 | 5.098 | 8.102 | 3.916 | 2.115 |
| 2183 | GASUM | 860819 | 0.020 | 0.086 | -0.009 | 0.029 | -0.014 | 2.075 | 3.219 | 0.248 | 0.031 |
| | | | 1.067 | 2.426 | -0.190 | 0.306 | -0.170 | 33.410 | 33.481 | 13.755 | 1.340 |
| 2236 | GASUM | 861007 | 0.012 | 0.110 | 0.000 | 0.041 | 0.000 | 0.720 | 2.036 | 0.086 | 0.033 |
| | | | 0.627 | 3.111 | 0.000 | 0.433 | 0.000 | 11.600 | 21.173 | 4.739 | 1.428 |
| 2268 | GASUM | 860916 | 0.031 | 0.277 | -0.006 | 0.072 | -0.020 | 2.020 | 4.243 | 0.221 | 0.149 |
| | | | 1.652 | 7.822 | -0.126 | 0.752 | -0.245 | 32.523 | 44.124 | 12.244 | 6.467 |
| 2304 | GASUM | 861021 | 0.009 | 0.161 | -0.019 | -0.025 | -0.059 | 0.619 | 1.616 | 0.103 | 0.069 |
| | | | 0.463 | 4.545 | -0.423 | -0.263 | -0.737 | 9.961 | 16.804 | 5.701 | 2.982 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2305 | GASUM | 861104 | 0.012 | 0.186 | -0.019 | 0.062 | -0.055 | 0.713 | 2.223 | 0.136 | 0.098 |
| | | | 0.627 | 5.252 | -0.407 | 0.656 | -0.686 | 11.478 | 23.124 | 7.555 | 4.274 |
| 2476 | GASUM | 861209 | -0.005 | 0.125 | -0.007 | -0.055 | 0.097 | 0.544 | 1.323 | 0.139 | 0.064 |
| | | | -0.247 | 3.534 | -0.147 | -0.582 | 1.216 | 8.763 | 13.755 | 7.689 | 2.793 |
| 2477 | GASUM | 861216 | -0.004 | 0.226 | -0.007 | -0.056 | -0.012 | 0.848 | 1.745 | 0.156 | 0.094 |
| | | | -0.235 | 6.381 | -0.144 | -0.592 | -0.150 | 13.658 | 18.145 | 8.669 | 4.069 |
| 2514 | GASUM | 861112 | 0.033 | 0.432 | -0.034 | 0.022 | -0.010 | 1.677 | 3.698 | 0.233 | 0.078 |
| | | | 1.736 | 12.173 | -0.735 | 0.233 | -0.121 | 26.995 | 38.458 | 12.901 | 3.396 |
| 2515 | GASUM | 861118 | 0.015 | 0.220 | -0.033 | 0.028 | -0.010 | 0.781 | 2.282 | 0.156 | 0.088 |
| | | | 0.773 | 6.211 | -0.711 | 0.296 | -0.120 | 12.573 | 23.730 | 8.668 | 3.816 |
| 2516 | GASUM | 861125 | 0.012 | 0.247 | -0.032 | 0.035 | -0.010 | 0.512 | 1.287 | 0.108 | 0.121 |
| | | | 0.635 | 6.967 | -0.686 | 0.369 | -0.119 | 8.249 | 13.383 | 5.964 | 5.267 |
| 2517 | GASUM | 861202 | 0.023 | 2.038 | -0.030 | 0.027 | -0.009 | 1.906 | 3.461 | 0.128 | 1.232 |
| | | | 1.191 | 57.468 | -0.662 | 0.289 | -0.118 | 30.691 | 35.997 | 7.088 | 53.604 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1968 | GASUM | 860611 | 0.014 | 0.061 | 0.017 |
| | | | 0.350 | 1.518 | 0.708 |
| 1978 | GASUM | 860701 | 0.016 | 0.129 | 0.020 |
| | | | 0.405 | 3.226 | 0.821 |
| 1979 | GASUM | 860708 | 0.127 | 0.387 | 0.084 |
| | | | 3.242 | 9.649 | 3.444 |
| 1982 | GASUM | 860625 | 0.013 | 0.145 | 0.019 |
| | | | 0.343 | 3.620 | 0.787 |
| 1995 | GASUM | 860527 | 0.031 | 0.216 | 0.021 |
| | | | 0.784 | 5.385 | 0.877 |
| 1996 | GASUM | 860604 | 0.019 | 0.039 | 0.010 |
| | | | 0.495 | 0.977 | 0.431 |
| 2030 | GASUM | 860722 | 0.009 | 0.096 | 0.007 |
| | | | 0.224 | 2.389 | 0.291 |
| 2057 | GASUM | 860729 | 0.026 | 0.501 | 0.044 |
| | | | 0.672 | 12.507 | 1.793 |
| 2058 | GASUM | 860805 | 0.012 | 0.048 | 0.009 |
| | | | 0.300 | 1.198 | 0.355 |
| 2094 | GASUM | 860812 | 0.001 | 0.160 | 0.008 |
| | | | 0.037 | 3.995 | 0.320 |
| 2120 | GASUM | 860826 | 0.011 | 0.029 | 0.010 |
| | | | 0.290 | 0.734 | 0.402 |
| 2152 | GASUM | 860902 | 0.006 | 0.024 | 0.005 |
| | | | 0.164 | 0.600 | 0.208 |
| 2156 | GASUM | 860909 | 0.014 | 0.026 | 0.008 |
| | | | 0.349 | 0.645 | 0.318 |
| 2183 | GASUM | 860819 | 0.012 | 0.036 | 0.008 |
| | | | 0.312 | 0.899 | 0.342 |
| 2236 | GASUM | 861007 | 0.009 | 0.016 | 0.004 |
| | | | 0.229 | 0.398 | 0.161 |
| 2268 | GASUM | 860916 | 0.065 | 0.150 | 0.027 |
| | | | 1.655 | 3.737 | 1.098 |
| 2304 | GASUM | 861021 | 0.006 | 0.019 | 0.008 |
| | | | 0.159 | 0.468 | 0.322 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 2305 | GASUM | 861104 | 0.010 | 0.028 | 0.013 |
| | | | 0.260 | 0.698 | 0.529 |
| 2476 | GASUM | 861209 | 0.010 | 0.021 | 0.009 |
| | | | 0.262 | 0.521 | 0.361 |
| 2477 | GASUM | 861216 | 0.018 | 0.086 | 0.014 |
| | | | 0.464 | 2.140 | 0.593 |
| 2514 | GASUM | 861112 | 0.027 | 0.052 | 0.013 |
| | | | 0.680 | 1.307 | 0.544 |
| 2515 | GASUM | 861118 | 0.015 | 0.027 | 0.012 |
| | | | 0.372 | 0.676 | 0.488 |
| 2516 | GASUM | 861125 | 0.011 | -0.015 | 0.015 |
| | | | 0.280 | -0.365 | 0.627 |
| 2517 | GASUM | 861202 | 0.058 | 0.091 | 0.141 |
| | | | 1.472 | 2.265 | 5.809 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1571 | GAWAY | 860107 | | 1200 | 860114 | 1045 | 860130 | 3 | 1.88 | 3224.00 | 5.0 |
| 1572 | GAWAY | 860114 | | 1045 | 860121 | 1215 | 860130 | 2 | 0.05 | 38.00 | |
| 1585 | GAWAY | 860121 | | 121 | 860128 | 1115 | 860205 | 2 | 0.16 | 239.00 | 21.6 |
| 1622 | GAWAY | 860204 | | 1330 | 860212 | 830 | 860221 | 6 | 6.70 | 9951.00 | 5.5 |
| 1658 | GAWAY | 860219 | | 1130 | 860225 | 830 | 860305 | 2 | 0.13 | 184.00 | 8.7 |
| 1675 | GAWAY | 860212 | | 830 | 860219 | 1130 | 860312 | 2 | 0.13 | 178.00 | 11.8 |
| 1676 | GAWAY | 860225 | | 830 | 860305 | 1145 | 860312 | 1 | 0.36 | 588.00 | 30.3 |
| 1705 | GAWAY | 860311 | | 1100 | 860319 | 930 | 860327 | 3 | 1.55 | 2605.00 | 11.0 |
| 1733 | GAWAY | 860319 | | 830 | 860326 | 1100 | 860409 | 3 | 1.90 | 3217.00 | 31.2 |
| 1780 | GAWAY | 860408 | | 1345 | 860416 | 845 | 860425 | 1 | | 32.00 | |
| 1818 | GAWAY | 860416 | | 845 | 860422 | 900 | 860508 | 1 | 0.23 | 404.00 | 8.9 |
| 1877 | GAWAY | 860513 | | 1600 | 860521 | 900 | 860606 | 1 | 0.05 | 86.00 | |
| 1896 | GAWAY | 860527 | | 900 | 860603 | 900 | 860612 | 3 | 0.53 | 543.00 | 64.3 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1571 | GAWAY | 860107 | 4.93 | | | 0.92 | 1.24 | 525.000 | 4.96 | 16.54 | 4.4 |
| 1572 | GAWAY | 860114 | | | | 1.03 | 1.04 | 20.000 | 4.34 | | 23.8 |
| 1585 | GAWAY | 860121 | 4.23 | 3 | 33 | 1.00 | 1.07 | 170.000 | 4.22 | 66.45 | 28.7 |
| 1622 | GAWAY | 860204 | 5.06 | | | 0.87 | 1.26 | 525.000 | 5.02 | 15.41 | 5.2 |
| 1658 | GAWAY | 860219 | 4.80 | | | 0.98 | 1.11 | 150.000 | 4.74 | 21.19 | 11.1 |
| 1675 | GAWAY | 860212 | 4.55 | 13 | 34 | 1.05 | 1.03 | 130.000 | 4.53 | 42.54 | 16.2 |
| 1676 | GAWAY | 860225 | 4.29 | 3 | 32 | 1.02 | 1.03 | 450.000 | 4.25 | 63.24 | 29.5 |
| 1705 | GAWAY | 860311 | 4.88 | | | 1.01 | 1.11 | 525.000 | 4.79 | 22.37 | 10.7 |
| 1733 | GAWAY | 860319 | 4.21 | 3 | 33 | 1.01 | 1.08 | 515.000 | 4.12 | 81.18 | 36.9 |
| 1780 | GAWAY | 860408 | | 3 | 32 | 1.00 | 1.09 | 30.000 | 4.10 | | 49.8 |
| 1818 | GAWAY | 860416 | 4.85 | | | 0.94 | 1.22 | 275.000 | 4.76 | 23.57 | 8.9 |
| 1877 | GAWAY | 860513 | | 3 | | 1.05 | 1.02 | 75.000 | 4.36 | 54.30 | 25.2 |
| 1896 | GAWAY | 860527 | 3.83 | | 34 | 1.08 | 0.98 | 400.000 | 3.78 | 188.30 | 77.8 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1571 | GAWAY | 860107 | -0.007<br>-0.385 | 0.141<br>3.963 | -0.006<br>-0.134 | -0.030<br>-0.316 | -0.007<br>-0.085 | 0.203<br>3.264 | 0.428<br>4.450 | 0.028<br>1.535 | 0.099<br>4.289 |
| 1572 | GAWAY | 860114 | 0.024<br>1.260 | 0.765<br>21.577 | -0.006<br>-0.136 | 0.035<br>0.367 | -0.007<br>-0.089 | 1.261<br>20.309 | 2.132<br>22.173 | 0.128<br>7.081 | 0.560<br>24.372 |
| 1585 | GAWAY | 860121 | 0.016<br>0.867 | 0.383<br>10.789 | -0.012<br>-0.259 | -0.010<br>-0.100 | -0.034<br>-0.422 | 1.983<br>31.929 | 2.629<br>27.339 | 0.241<br>13.376 | 0.251<br>10.903 |
| 1622 | GAWAY | 860204 | -0.001<br>-0.062 | 0.392<br>11.043 | -0.008<br>-0.173 | -0.020<br>-0.205 | -0.044<br>-0.546 | 0.287<br>4.623 | 0.510<br>5.304 | 0.068<br>3.790 | 0.232<br>10.112 |
| 1658 | GAWAY | 860219 | 0.008<br>0.425 | 0.450<br>12.702 | -0.013<br>-0.276 | -0.051<br>-0.534 | 0.053<br>0.658 | 0.812<br>13.071 | 1.207<br>12.548 | 0.263<br>14.561 | 0.279<br>12.136 |
| 1675 | GAWAY | 860212 | 0.011<br>0.557 | 0.448<br>12.633 | -0.015<br>-0.319 | -0.059<br>-0.623 | -0.046<br>-0.573 | 1.126<br>18.131 | 1.483<br>15.423 | 0.129<br>7.151 | 0.294<br>12.775 |
| 1676 | GAWAY | 860225 | 0.016<br>0.834 | 0.384<br>10.840 | -0.014<br>-0.315 | -0.057<br>-0.601 | -0.057<br>-0.711 | 2.223<br>35.798 | 2.772<br>28.831 | 0.433<br>23.994 | 0.247<br>10.766 |
| 1705 | GAWAY | 860311 | 0.007<br>0.370 | 0.442<br>12.474 | -0.011<br>-0.239 | 0.046<br>0.487 | -0.069<br>-0.865 | 0.778<br>12.534 | 1.242<br>12.920 | 0.228<br>12.617 | 0.266<br>11.563 |
| 1733 | GAWAY | 860319 | 0.008<br>0.426 | 0.479<br>13.494 | -0.014<br>-0.309 | -0.024<br>-0.254 | -0.044<br>-0.548 | 2.632<br>42.379 | 3.608<br>37.524 | 0.534<br>29.593 | 0.254<br>11.033 |
| 1780 | GAWAY | 860408 | -0.059<br>-3.113 | 0.647<br>18.258 | -0.059<br>-1.282 | -0.114<br>-1.197 | -0.023<br>-0.284 | 3.978<br>64.046 | 7.111<br>73.953 | 0.849<br>47.059 | 0.583<br>25.339 |
| 1818 | GAWAY | 860416 | 0.012<br>0.609 | 0.375<br>10.579 | -0.017<br>-0.365 | 0.019<br>0.197 | -0.007<br>-0.090 | 0.536<br>8.636 | 1.049<br>10.906 | 0.184<br>10.193 | 0.225<br>9.797 |
| 1877 | GAWAY | 860513 | 0.024<br>1.279 | 0.597<br>16.826 | -0.016<br>-0.349 | -0.011<br>-0.115 | -0.009<br>-0.107 | 2.817<br>45.350 | 1.781<br>18.527 | 0.223<br>12.338 | 0.439<br>19.089 |
| 1896 | GAWAY | 860527 | 0.030<br>1.565 | 0.345<br>9.716 | -0.006<br>-0.140 | -0.021<br>-0.218 | -0.013<br>-0.163 | 3.266<br>52.590 | 7.311<br>76.031 | 0.349<br>19.347 | 0.070<br>3.066 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1571 | GAWAY | 860107 | 0.009 | -0.031 | 0.008 |
| | | | 0.229 | -0.768 | 0.320 |
| 1572 | GAWAY | 860114 | 0.047 | 0.048 | 0.067 |
| | | | 1.199 | 1.201 | 2.738 |
| 1585 | GAWAY | 860121 | 0.081 | 0.178 | 0.041 |
| | | | 2.077 | 4.439 | 1.684 |
| 1622 | GAWAY | 860204 | 0.021 | 0.076 | 0.029 |
| | | | 0.539 | 1.896 | 1.174 |
| 1658 | GAWAY | 860219 | 0.047 | 0.082 | 0.035 |
| | | | 1.193 | 2.042 | 1.430 |
| 1675 | GAWAY | 860212 | 0.038 | 0.116 | 0.037 |
| | | | 0.970 | 2.899 | 1.523 |
| 1676 | GAWAY | 860225 | 0.038 | 0.169 | 0.036 |
| | | | 0.970 | 4.228 | 1.465 |
| 1705 | GAWAY | 860311 | 0.048 | 0.154 | 0.037 |
| | | | 1.230 | 3.833 | 1.518 |
| 1733 | GAWAY | 860319 | 0.187 | 0.108 | 0.049 |
| | | | 4.784 | 2.691 | 2.017 |
| 1780 | GAWAY | 860408 | 0.172 | 1.229 | 0.158 |
| | | | 4.404 | 30.673 | 6.486 |
| 1818 | GAWAY | 860416 | 0.024 | 0.094 | 0.030 |
| | | | 0.617 | 2.355 | 1.249 |
| 1877 | GAWAY | 860513 | 0.119 | 0.262 | 0.065 |
| | | | 3.043 | 6.545 | 2.673 |
| 1896 | GAWAY | 860527 | 0.060 | 0.176 | 0.032 |
| | | | 1.544 | 4.398 | 1.317 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1930 | GAWAY | 860603 |  | 900 | 860610 | 1400 | 860624 | 1 | 0.44 | 647.00 | 10.4 |
| 1933 | GAWAY | 860610 |  | 1400 | 860617 | 1500 | 860625 | 4 | 3.23 | 2525.00 | 12.0 |
| 2042 | GAWAY | 860725 |  | 1100 | 860729 | 1100 | 860808 | 4 | 3.38 | 2722.00 | 8.3 |
| 2080 | GAWAY | 860729 |  | 1100 | 860805 | 1700 | 860820 | 5 | 0.64 | 944.00 | 42.0 |
| 2084 | GAWAY | 860805 |  | 1700 | 860812 | 800 | 860827 | 1 | 0.37 | 630.00 | 18.8 |
| 2095 | GAWAY | 860812 |  | 800 | 860819 | 900 | 860828 | 2 | 1.47 | 2530.00 | 15.0 |
| 2121 | GAWAY | 860819 |  | 900 | 860826 | 1300 | 860912 | 3 | 0.73 | 1312.00 |  |
| 2149 | GAWAY | 860902 |  | 1700 | 860909 | 930 | 860919 | 1 | 1.07 | 1825.00 | 10.0 |
| 2163 | GAWAY | 860826 |  | 1300 | 860902 | 1700 | 860925 | 4 | 1.92 | 3154.00 |  |
| 2212 | GAWAY | 860909 |  | 930 | 860917 | 1445 | 861014 | 1 |  | 1702.00 | 5.2 |
| 2213 | GAWAY | 860917 |  | 1445 | 860924 | 1 | 861014 |  | 0.03 | 75.00 |  |
| 2238 | GAWAY | 861008 |  | 1000 | 861015 | 1500 | 861023 | 3 | 0.90 | 1460.00 | 14.0 |
| 2269 | GAWAY | 860930 |  | 830 | 861008 | 1000 | 861031 |  |  | 53.00 |  |
| 2360 | GAWAY | 861118 |  | 930 | 861125 | 1000 | 861203 | 2 | 3.16 | 5361.00 | 3.4 |
| 2367 | GAWAY | 861111 |  | 930 | 861118 | 930 | 861204 | 3 | 1.31 | 2168.00 | 13.6 |
| 2417 | GAWAY | 861203 |  | 1045 | 861210 | 1100 | 861223 | 1 | 0.55 | 871.00 | 4.7 |
| 2452 | GAWAY | 861216 |  | 1500 | 861224 | 835 | 870107 | 3 |  | 2484.00 | 16.3 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2484 | GAWAY | 861231 |  | 930 | 870106 | 830 | 870114 | 4 | 3.45 | 6284.00 | 10.6 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1930 | GAWAY | 860603 | 4.58 | 3 |  | 0.98 | 1.01 | 450.0 | 4.60 | 33.7 | 14.2 |
| 1933 | GAWAY | 860610 | 4.72 | 3 | 213334 | 0.95 | 1.08 | 440.0 | 4.51 | 37.4 | 15.2 |
| 2042 | GAWAY | 860725 | 4.89 |  |  | 0.95 | 1.12 | 515.0 | 4.68 | 25.3 | 8.9 |
| 2080 | GAWAY | 860729 | 4.26 | 3 |  | 1.03 | 1.07 | 425.0 | 4.06 | 98.3 | 41.7 |
| 2084 | GAWAY | 860805 | 4.31 | 3 | 34 | 1.04 | 1.09 | 240.0 | 4.33 | 52.7 | 20.9 |
| 2095 | GAWAY | 860812 | 6.26 | 3 | 993133 | 9999.00 | 9999.00 | 470.0 | 6.14 |  |  |
| 2121 | GAWAY | 860819 |  | 3 | 993133 | 9999.00 | 9999.00 | 525.0 | 6.19 |  |  |
| 2149 | GAWAY | 860902 | 4.88 | 3 | 3334 | 1.01 | 1.29 | 400.0 | 4.81 | 19.9 | 6.4 |
| 2163 | GAWAY | 860826 |  |  | 993133 | 9999.00 | 9999.00 | 525.0 | 6.28 |  |  |
| 2212 | GAWAY | 860909 | 4.94 |  |  | 0.99 | 1.38 | 525.0 | 4.91 | 17.7 | 4.7 |
| 2213 | GAWAY | 860917 |  | 3 | 21 | 1.04 | 1.01 | 75.0 | 4.00 | 111.7 | 53.5 |
| 2238 | GAWAY | 861008 | 4.59 |  | 2132 | 1.08 | 1.17 | 400.0 | 4.56 | 32.4 | 13.4 |
| 2269 | GAWAY | 860930 |  | 3 | 21 | 1.10 | 0.98 | 50.0 | 3.69 |  | 103.8 |
| 2360 | GAWAY | 861118 | 5.37 | 3 | 3134 | 0.94 | 1.45 | 525.0 | 5.33 | 12.6 | 2.7 |
| 2367 | GAWAY | 861111 | 4.52 |  | 21 | 1.02 | 1.10 | 525.0 | 4.54 | 34.7 | 14.5 |
| 2417 | GAWAY | 861203 | 5.19 | 3 | 213234 | 0.99 | 1.32 | 420.0 | 5.25 | 11.7 | 3.7 |
| 2452 | GAWAY | 861216 | 4.50 | 3 | 21 | 1.01 | 1.09 | 525.0 | 4.59 | 30.7 | 17.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2484 | GAWAY | 861231 | 4.67 | 3 |  | 0.99 | 1.16 | 525.0 | 4.65 | 28.0 | 9.8 |

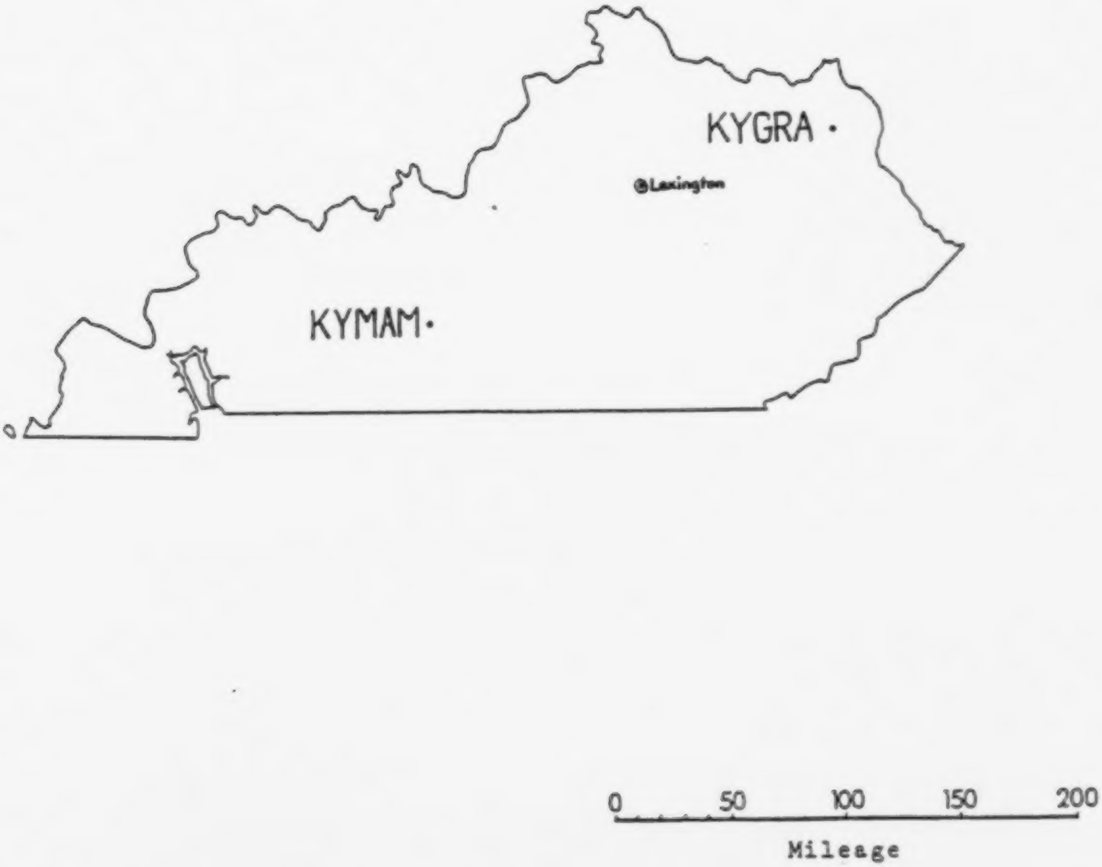
| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1930 | GAWAY | 860603 | 0.020 | 0.254 | -0.012 | 0.015 | -0.018 | 1.230 | 1.154 | 0.113 | 0.189 |
| | | | 1.041 | 7.161 | -0.264 | 0.160 | -0.224 | 19.805 | 12.000 | 6.272 | 8.235 |
| 1933 | GAWAY | 860610 | 0.018 | 0.212 | -0.011 | -0.015 | -0.019 | 1.276 | 1.238 | 0.253 | 0.129 |
| | | | 0.946 | 5.974 | -0.240 | -0.157 | -0.234 | 20.550 | 12.879 | 13.989 | 5.632 |
| 2042 | GAWAY | 860725 | 0.009 | 0.079 | -0.009 | 0.044 | -0.004 | 0.661 | 0.643 | 0.067 | 0.045 |
| | | | 0.460 | 2.241 | -0.195 | 0.460 | -0.053 | 10.643 | 6.683 | 3.715 | 1.976 |
| 2080 | GAWAY | 860729 | 0.052 | 0.217 | -0.005 | -0.037 | -0.021 | 2.549 | 4.487 | 0.584 | 0.119 |
| | | | 2.737 | 6.109 | -0.108 | -0.385 | -0.266 | 41.037 | 46.664 | 32.352 | 5.196 |
| 2084 | GAWAY | 860805 | 0.028 | 0.279 | -0.004 | -0.026 | -0.022 | 1.538 | 1.718 | 0.142 | 0.169 |
| | | | 1.478 | 7.880 | -0.084 | -0.274 | -0.270 | 24.764 | 17.866 | 7.890 | 7.347 |
| 2095 | GAWAY | 860812 | | | | | | | | | |
| 2121 | GAWAY | 860819 | | | | | | | | | |
| 2149 | GAWAY | 860902 | -0.005 | 0.252 | -0.009 | 0.029 | -0.029 | 0.450 | 0.608 | 0.074 | 0.145 |
| | | | -0.247 | 7.100 | -0.197 | 0.300 | -0.362 | 7.237 | 6.324 | 4.120 | 6.288 |
| 2163 | GAWAY | 860826 | | | | | | | | | |
| 2212 | GAWAY | 860909 | -0.003 | 0.216 | -0.031 | 0.028 | -0.010 | 0.402 | 0.405 | 0.050 | 0.120 |
| | | | -0.156 | 6.078 | -0.672 | 0.299 | -0.120 | 6.473 | 4.216 | 2.760 | 5.224 |
| 2213 | GAWAY | 860917 | 0.058 | 0.748 | -0.032 | 0.025 | -0.009 | 3.125 | 5.379 | 0.792 | 0.472 |
| | | | 3.054 | 21.084 | -0.691 | 0.263 | -0.116 | 50.312 | 55.943 | 43.856 | 20.519 |
| 2238 | GAWAY | 861008 | 0.025 | 0.260 | 0.000 | 0.160 | 0.000 | 0.862 | 1.483 | 0.281 | 0.133 |
| | | | 1.340 | 7.321 | 0.000 | 1.685 | 0.000 | 13.875 | 15.427 | 15.578 | 5.799 |
| 2269 | GAWAY | 860930 | 0.116 | 0.645 | -0.006 | 0.067 | 0.070 | 5.392 | 10.426 | 0.937 | 0.421 |
| | | | 6.098 | 18.177 | -0.123 | 0.700 | 0.882 | 86.812 | 108.426 | 51.933 | 18.314 |
| 2360 | GAWAY | 861118 | -0.003 | 0.151 | -0.008 | 0.086 | -0.012 | 0.188 | 0.387 | 0.094 | 0.106 |
| | | | -0.156 | 4.270 | -0.182 | 0.906 | -0.154 | 3.027 | 4.025 | 5.190 | 4.590 |
| 2367 | GAWAY | 861111 | -0.001 | 0.452 | -0.011 | 0.014 | -0.008 | 0.989 | 1.376 | 0.186 | 0.290 |
| | | | -0.043 | 12.759 | -0.231 | 0.145 | -0.100 | 15.921 | 14.307 | 10.326 | 12.624 |
| 2417 | GAWAY | 861203 | -0.004 | 0.299 | -0.007 | 0.083 | -0.046 | 0.278 | 0.402 | 0.120 | 0.187 |
| | | | -0.230 | 8.442 | -0.148 | 0.868 | -0.581 | 4.472 | 4.185 | 6.621 | 8.137 |
| 2452 | GAWAY | 861216 | -0.005 | 1.452 | -0.008 | -0.033 | -0.019 | 0.761 | 1.471 | 0.188 | 0.826 |
| | | | -0.247 | 40.952 | -0.183 | -0.350 | -0.240 | 12.244 | 15.295 | 10.415 | 35.924 |

| ID | STN | BD | F | CL | NO2 | PO4 | BR | NO3 | SO4 | NH4 | NA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l |
| 2484 | GAWAY | 861231 | -0.003 | 0.293 | -0.005 | 0.020 | -0.018 | 0.475 | 0.957 | 0.043 | 0.167 |
| | | | -0.142 | 8.270 | -0.106 | 0.208 | -0.226 | 7.643 | 9.950 | 2.409 | 7.279 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1930 | GAWAY | 860603 | 0.045 | 0.173 | 0.051 |
| | | | 1.157 | 4.306 | 2.103 |
| 1933 | GAWAY | 860610 | 0.055 | 0.053 | 0.018 |
| | | | 1.410 | 1.321 | 0.760 |
| 2042 | GAWAY | 860725 | 0.008 | 0.052 | 0.005 |
| | | | 0.201 | 1.290 | 0.206 |
| 2080 | GAWAY | 860729 | 0.045 | 0.239 | 0.031 |
| | | | 1.156 | 5.975 | 1.284 |
| 2084 | GAWAY | 860805 | 0.051 | 0.051 | 0.021 |
| | | | 1.310 | 1.267 | 0.864 |
| 2095 | GAWAY | 860812 | | | |
| 2121 | GAWAY | 860819 | | | |
| 2149 | GAWAY | 860902 | 0.014 | -0.025 | 0.017 |
| | | | 0.371 | -0.630 | 0.715 |
| 2163 | GAWAY | 860826 | | | |
| 2212 | GAWAY | 860909 | 0.007 | 0.014 | 0.014 |
| | | | 0.191 | 0.338 | 0.564 |
| 2213 | GAWAY | 860917 | 0.074 | 0.185 | 0.072 |
| | | | 1.884 | 4.620 | 2.982 |
| 2238 | GAWAY | 861008 | 0.069 | 0.040 | 0.019 |
| | | | 1.764 | 0.987 | 0.775 |
| 2269 | GAWAY | 860930 | 0.061 | 0.408 | 0.074 |
| | | | 1.552 | 10.175 | 3.056 |
| 2360 | GAWAY | 861118 | 0.082 | 0.030 | 0.016 |
| | | | 2.103 | 0.750 | 0.651 |
| 2367 | GAWAY | 861111 | 0.022 | 0.032 | 0.033 |
| | | | 0.560 | 0.809 | 1.366 |
| 2417 | GAWAY | 861203 | 0.033 | 0.026 | 0.021 |
| | | | 0.856 | 0.659 | 0.858 |
| 2452 | GAWAY | 861216 | 0.045 | 0.050 | 0.095 |
| | | | 1.158 | 1.256 | 3.928 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2484 | GAWAY | 861231 | 0.097 | 0.006 | 0.026 |
| | | | 2.471 | 0.152 | 1.052 |

KENTUCKY


KYGRA
Lexington
KYMAM
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

## KENTUCKY

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD(1) BEGIN | END | #SAMPLES | %NON-VOID(2) |
|---|---|---|---|---|---|---|---|
| KYGRA | Grayson Lake | Grayson | Carter | | | 37 | 100 |
| KYMAM | Mammoth Cave | Brownsville | Edmonson | | | 44 | 100 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)

Site: KYGRA

Data Plots, JAN '86 - DEC '86

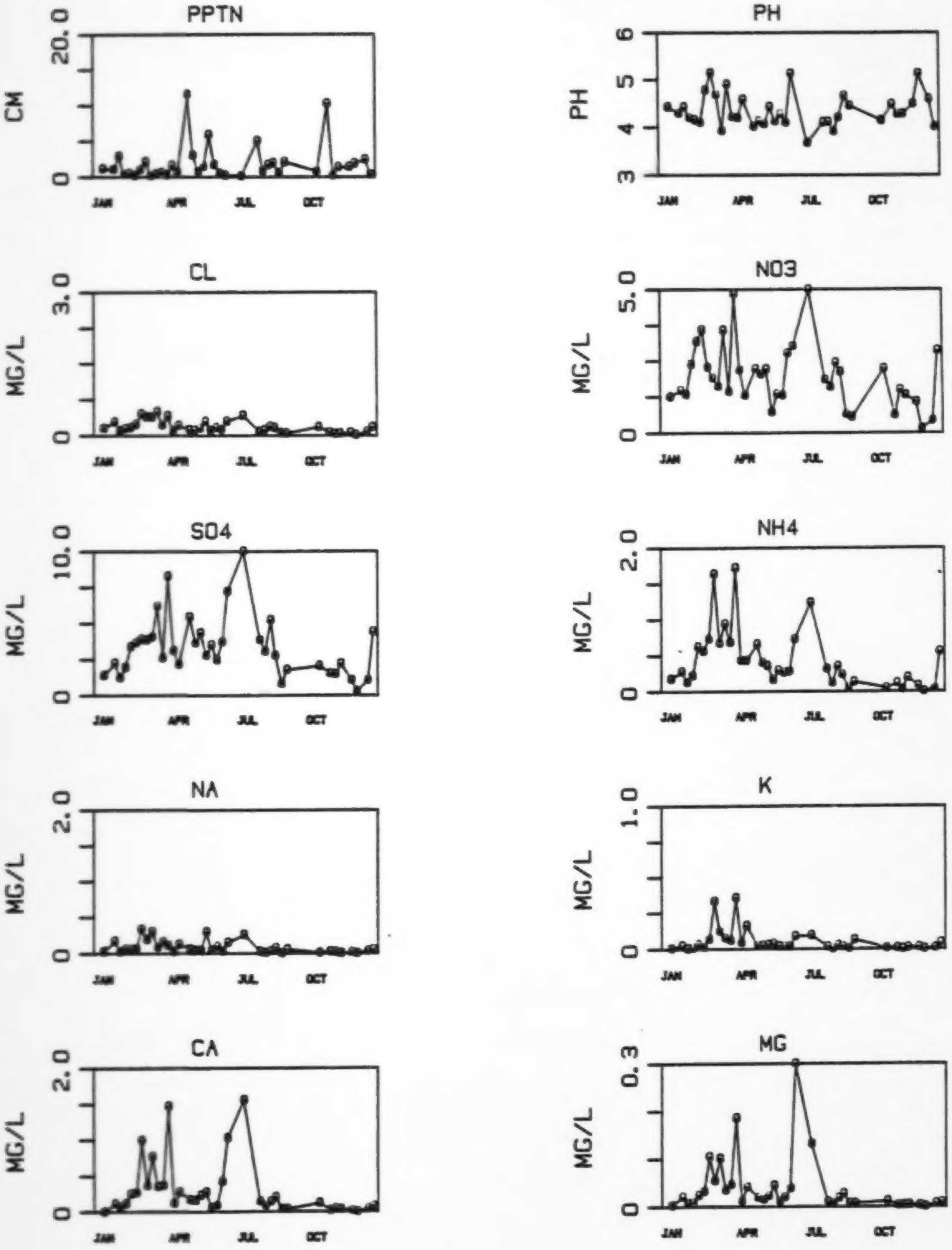
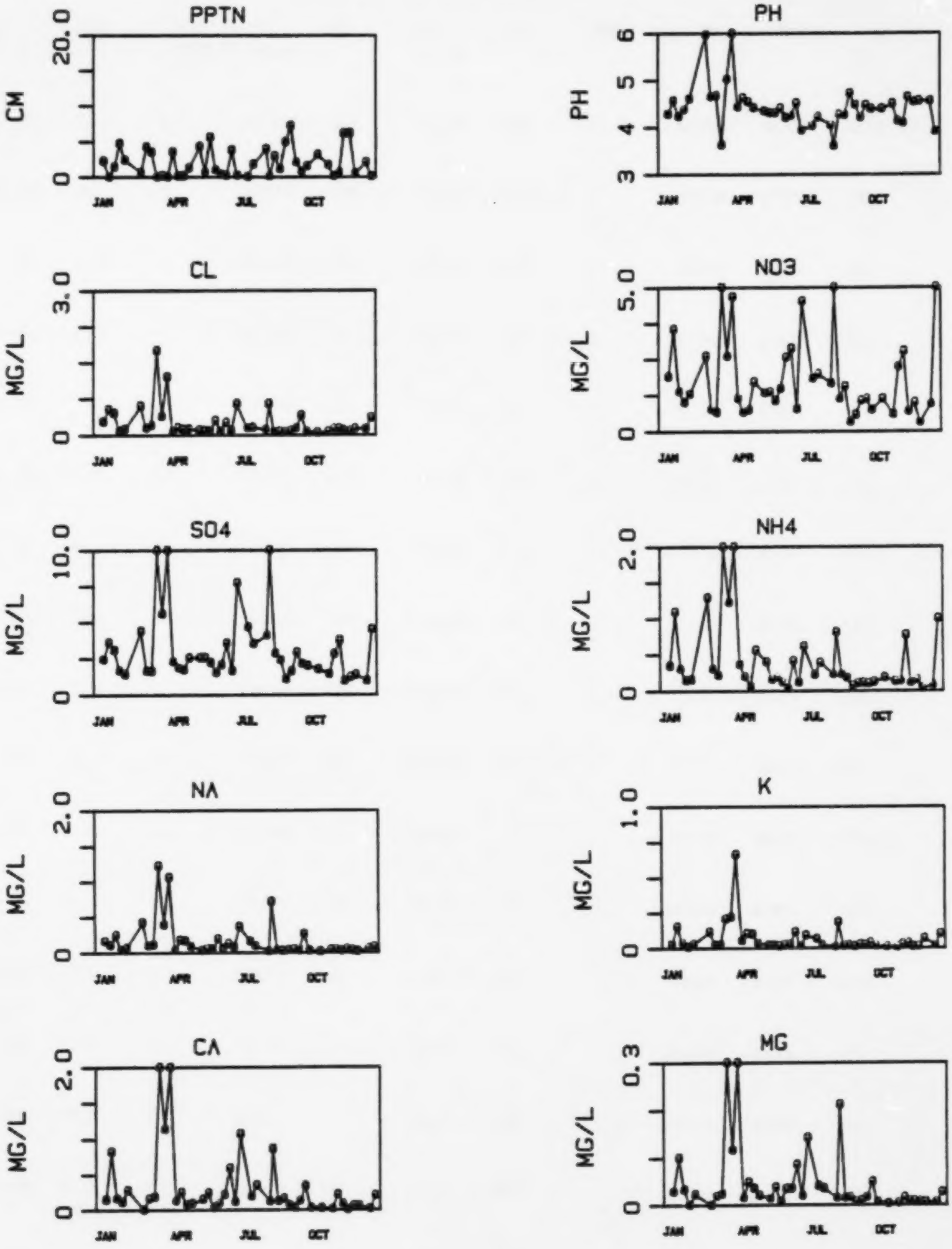


Figure 2-1 (continued)
Site: KYMAM
Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1558 | KYGRA | 860114 | 1 | 850 | 860121 | 120 | 860128 | 4 | 0.47 | 1755.00 | |
| 1599 | KYGRA | 860128 | | 1007 | 860204 | 800 | 860210 | 2 | 0.43 | 835.00 | |
| 1641 | KYGRA | 860211 | | 930 | 860218 | 900 | 860227 | 2 | 0.16 | 776.00 | |
| 1652 | KYGRA | 860218 | 2 | 900 | 860225 | 800 | 860303 | 3 | 0.20 | 544.00 | |
| 1678 | KYGRA | 860204 | 1 | 800 | 860211 | 930 | 860312 | 5 | | 1953.00 | |
| 1696 | KYGRA | 860304 | | 900 | 860311 | 850 | 860321 | 2 | 0.41 | 835.00 | 27.3 |
| 1697 | KYGRA | 860225 | | 800 | 860304 | 900 | 860321 | 2 | 0.08 | 293.00 | 39.2 |
| 1701 | KYGRA | 860311 | | 852 | 860318 | 800 | 860325 | 3 | 0.82 | 1534.00 | 21.7 |
| 1744 | KYGRA | 860318 | | 800 | 860325 | 915 | 860411 | 1 | 0.07 | 90.00 | 21.5 |
| 1745 | KYGRA | 860325 | | 915 | 860401 | 815 | 860411 | 2 | 0.19 | 310.00 | 58.1 |
| 1759 | KYGRA | 860401 | | | 860408 | 815 | 860416 | 1 | 0.25 | 374.00 | 19.6 |
| 1768 | KYGRA | 860408 | | 820 | 860415 | 820 | 860422 | 2 | 0.10 | 183.00 | 60.2 |
| 1790 | KYGRA | 860415 | | 840 | 860422 | 845 | 860501 | 4 | 0.64 | 1297.00 | 33.7 |
| 1819 | KYGRA | 860422 | | 845 | 860429 | 800 | 860508 | 1 | 0.29 | 592.00 | |
| 1837 | KYGRA | 860506 | | 900 | 860513 | 900 | 860520 | 5 | 4.55 | 8982.00 | 50.7 |
| 1851 | KYGRA | 860513 | | 900 | 860520 | 815 | 860528 | 2 | 1.18 | 1985.00 | 38.2 |
| 1868 | KYGRA | 860520 | | 820 | 860527 | 900 | 860603 | 3 | 0.29 | 497.00 | 45.8 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1897 | KYGRA | 860527 |  | 910 | 860603 | 820 | 860612 | 4 | 0.59 | 953.00 | 22.2 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN<br>uequiv/l | COND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1558 | KYGRA | 860114 | 4.20 | | | 1.13 | 1.07 | 550.000 | 4.42 | 44.95 | 16.9 |
| 1599 | KYGRA | 860128 | 3.93 | | | 0.97 | 1.07 | 525.000 | 4.29 | 55.95 | 24.1 |
| 1641 | KYGRA | 860211 | 4.02 | | | 0.99 | 1.12 | 500.000 | 4.20 | 66.35 | 26.3 |
| 1652 | KYGRA | 860218 | 4.12 | 3 | | 1.03 | 1.05 | 525.000 | 4.15 | 76.04 | 36.0 |
| 1678 | KYGRA | 860204 | 4.35 | | | 1.02 | 1.08 | 330.000 | 4.42 | 44.01 | 16.4 |
| 1696 | KYGRA | 860304 | 4.52 | 3 | | 1.00 | 1.04 | 500.000 | 4.78 | 22.81 | 22.2 |
| 1697 | KYGRA | 860225 | 4.09 | 3 | | 1.09 | 1.00 | 250.000 | 4.10 | 90.45 | 41.6 |
| 1701 | KYGRA | 860311 | 4.75 | 13 | | 0.98 | 1.07 | 500.000 | 5.14 | 13.63 | 20.1 |
| 1744 | KYGRA | 860318 | 4.53 | 3 | | 1.01 | 1.10 | 80.000 | 4.68 | 26.11 | 20.9 |
| 1745 | KYGRA | 860325 | 3.85 | | | 1.04 | 1.12 | 300.000 | 3.93 | 123.46 | 54.9 |
| 1759 | KYGRA | 860401 | 4.51 | | | 1.04 | 1.10 | 375.000 | 4.90 | 19.82 | 14.0 |
| 1768 | KYGRA | 860408 | 4.03 | 3 | 33 | 1.03 | 1.04 | 175.000 | 4.22 | 68.27 | 51.9 |
| 1790 | KYGRA | 860415 | 4.08 | | | 1.08 | 1.02 | 525.000 | 4.20 | 70.26 | 31.4 |
| 1819 | KYGRA | 860422 | 4.32 | 3 | | 0.96 | 1.05 | 525.000 | 4.58 | 34.08 | 17.1 |
| 1837 | KYGRA | 860506 | 3.97 | 3 | | 1.07 | 0.98 | 525.000 | 4.02 | 109.30 | 49.2 |
| 1851 | KYGRA | 860513 | 4.13 | | | 1.05 | 1.04 | 500.000 | 4.13 | 83.00 | 35.3 |
| 1868 | KYGRA | 860520 | 4.04 | 3 | | 1.09 | 1.01 | 475.000 | 4.07 | 97.20 | 41.7 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1897 | KYGRA | 860527 | 4.40 | | | 1.01 | 1.05 | 525.000 | 4.42 | 45.10 | 20.5 |

| ID | STN | BD | F | CL | NO2 | PO4 | BR | NO3 | SO4 | NH4 | NA |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml |
|  |  |  | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l |
| 1558 | KYGRA | 860114 | 0.012 | 0.149 | -0.031 | 0.041 | -0.021 | 1.256 | 1.399 | 0.176 | 0.030 |
|  |  |  | 0.629 | 4.196 | -0.664 | 0.432 | -0.263 | 20.229 | 14.547 | 9.737 | 1.302 |
| 1599 | KYGRA | 860128 | 0.012 | 0.283 | -0.013 | 0.009 | -0.016 | 1.477 | 2.256 | 0.278 | 0.170 |
|  |  |  | 0.619 | 7.988 | -0.287 | 0.097 | -0.205 | 23.780 | 23.461 | 15.391 | 7.397 |
| 1641 | KYGRA | 860211 | 0.009 | 0.146 | -0.019 | -0.035 | -0.061 | 2.380 | 1.975 | 0.226 | 0.067 |
|  |  |  | 0.494 | 4.113 | -0.415 | -0.364 | -0.760 | 38.317 | 20.541 | 12.507 | 2.898 |
| 1652 | KYGRA | 860218 | 0.019 | 0.163 | -0.028 | -0.056 | -0.066 | 3.179 | 3.379 | 0.622 | 0.062 |
|  |  |  | 1.012 | 4.592 | -0.602 | -0.589 | -0.826 | 51.177 | 35.142 | 34.454 | 2.704 |
| 1678 | KYGRA | 860204 | 0.011 | 0.096 | -0.014 | -0.056 | -0.058 | 1.323 | 1.243 | 0.128 | 0.026 |
|  |  |  | 0.575 | 2.709 | -0.308 | -0.585 | -0.721 | 21.303 | 12.928 | 7.080 | 1.147 |
| 1696 | KYGRA | 860304 | 0.022 | 0.452 | -0.011 | -0.038 | -0.067 | 2.272 | 3.891 | 0.733 | 0.332 |
|  |  |  | 1.160 | 12.745 | -0.236 | -0.394 | -0.836 | 36.583 | 40.466 | 40.584 | 14.433 |
| 1697 | KYGRA | 860225 | 0.017 | 0.234 | -0.011 | -0.037 | -0.067 | 3.576 | 3.661 | 0.564 | 0.066 |
|  |  |  | 0.883 | 6.591 | -0.233 | -0.386 | -0.841 | 57.575 | 38.070 | 31.249 | 2.869 |
| 1701 | KYGRA | 860311 | 0.022 | 0.391 | 0.165 | 0.253 | -0.069 | 1.895 | 3.849 | 1.632 | 0.192 |
|  |  |  | 1.161 | 11.015 | 3.590 | 2.657 | -0.870 | 30.508 | 40.034 | 90.395 | 8.365 |
| 1744 | KYGRA | 860318 | 0.022 | 0.383 | -0.013 | -0.025 | -0.047 | 1.611 | 4.068 | 0.673 | 0.295 |
|  |  |  | 1.182 | 10.792 | -0.280 | -0.260 | -0.585 | 25.936 | 42.306 | 37.311 | 12.853 |
| 1745 | KYGRA | 860325 | 0.045 | 0.503 | -0.013 | -0.025 | -0.047 | 3.574 | 6.194 | 0.943 | 0.086 |
|  |  |  | 2.375 | 14.195 | -0.285 | -0.266 | -0.585 | 57.538 | 64.414 | 52.259 | 3.725 |
| 1759 | KYGRA | 860401 | 0.010 | 0.219 | -0.017 | -0.035 | -0.047 | 1.435 | 2.626 | 0.684 | 0.164 |
|  |  |  | 0.551 | 6.182 | -0.374 | -0.367 | -0.585 | 23.108 | 27.310 | 37.880 | 7.126 |
| 1768 | KYGRA | 860408 | 0.052 | 0.408 | -0.036 | -0.031 | -0.037 | 4.842 | 8.261 | 1.720 | 0.107 |
|  |  |  | 2.756 | 11.497 | -0.791 | -0.323 | -0.460 | 77.949 | 85.916 | 95.306 | 4.666 |
| 1790 | KYGRA | 860415 | 0.014 | 0.094 | -0.009 | 0.014 | -0.009 | 2.184 | 3.100 | 0.436 | 0.024 |
|  |  |  | 0.760 | 2.639 | -0.200 | 0.152 | -0.108 | 35.160 | 32.245 | 24.168 | 1.065 |
| 1819 | KYGRA | 860422 | 0.017 | 0.209 | -0.017 | 0.015 | -0.007 | 1.302 | 2.169 | 0.433 | 0.125 |
|  |  |  | 0.887 | 5.904 | -0.365 | 0.154 | -0.091 | 20.957 | 22.553 | 24.014 | 5.424 |
| 1837 | KYGRA | 860506 | 0.015 | 0.121 | -0.007 | 0.029 | -0.013 | 2.219 | 5.450 | 0.656 | 0.067 |
|  |  |  | 0.799 | 3.420 | -0.147 | 0.301 | -0.169 | 35.724 | 56.683 | 36.327 | 2.901 |
| 1851 | KYGRA | 860513 | 0.013 | 0.110 | -0.011 | 0.037 | -0.020 | 2.023 | 3.640 | 0.402 | 0.044 |
|  |  |  | 0.700 | 3.099 | -0.230 | 0.388 | -0.249 | 32.572 | 37.858 | 22.276 | 1.916 |
| 1868 | KYGRA | 860520 | 0.020 | 0.153 | -0.018 | -0.009 | -0.013 | 2.206 | 4.343 | 0.355 | 0.042 |
|  |  |  | 1.074 | 4.301 | -0.381 | -0.093 | -0.161 | 35.515 | 45.169 | 19.674 | 1.834 |

```
ID        STN      BD               F         CL        NO2        PO4         BR        NO3        SO4        NH4         NA
                                ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml
                            umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l

 1897     KYGRA    860527       0.019      0.296     -0.007     -0.021     -0.013      0.717      2.777      0.162      0.296
                                0.982      8.337     -0.145     -0.224     -0.162     11.545     28.877      8.972     12.884
```

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1558 | KYGRA | 860114 | 0.007 | -0.050 | 0.003 |
| | | | 0.178 | -1.250 | 0.130 |
| 1599 | KYGRA | 860128 | 0.026 | 0.117 | 0.021 |
| | | | 0.655 | 2.910 | 0.879 |
| 1641 | KYGRA | 860211 | 0.010 | 0.116 | 0.009 |
| | | | 0.253 | 2.899 | 0.376 |
| 1652 | KYGRA | 860218 | 0.032 | 0.254 | 0.025 |
| | | | 0.829 | 6.343 | 1.014 |
| 1678 | KYGRA | 860204 | 0.003 | 0.061 | 0.008 |
| | | | 0.086 | 1.522 | 0.347 |
| 1696 | KYGRA | 860304 | 0.070 | 0.992 | 0.105 |
| | | | 1.795 | 24.762 | 4.325 |
| 1697 | KYGRA | 860225 | 0.015 | 0.274 | 0.034 |
| | | | 0.396 | 6.827 | 1.384 |
| 1701 | KYGRA | 860311 | 0.330 | 0.369 | 0.055 |
| | | | 8.429 | 9.212 | 2.277 |
| 1744 | KYGRA | 860318 | 0.122 | 0.770 | 0.102 |
| | | | 3.125 | 19.207 | 4.185 |
| 1745 | KYGRA | 860325 | 0.075 | 0.356 | 0.036 |
| | | | 1.929 | 8.875 | 1.469 |
| 1759 | KYGRA | 860401 | 0.060 | 0.373 | 0.048 |
| | | | 1.530 | 9.298 | 1.965 |
| 1768 | KYGRA | 860408 | 0.357 | 1.470 | 0.185 |
| | | | 9.134 | 36.679 | 7.623 |
| 1790 | KYGRA | 860415 | 0.044 | 0.121 | 0.012 |
| | | | 1.115 | 3.007 | 0.475 |
| 1819 | KYGRA | 860422 | 0.160 | 0.274 | 0.042 |
| | | | 4.103 | 6.844 | 1.724 |
| 1837 | KYGRA | 860506 | 0.022 | 0.169 | 0.019 |
| | | | 0.554 | 4.216 | 0.802 |
| 1851 | KYGRA | 860513 | 0.023 | 0.163 | 0.015 |
| | | | 0.599 | 4.063 | 0.618 |
| 1868 | KYGRA | 860520 | 0.029 | 0.234 | 0.024 |
| | | | 0.732 | 5.834 | 0.970 |

```
  ID       STN      BD           K        CA        MG
                              ug/ml     ug/ml     ug/ml
                           umoles/l  umoles/l  umoles/l

 1897     KYGRA    860527     0.037     0.274     0.045
                              0.943     6.837     1.831
```

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1912 | KYGRA | 860603 | | 820 | 860610 | 845 | 860617 | 4 | 2.31 | 4071.00 | 35.3 |
| 1941 | KYGRA | 860617 | | 810 | 860624 | 820 | 860701 | | | 320.00 | 40.7 |
| 1952 | KYGRA | 860610 | | 855 | 860617 | 805 | 860703 | 3 | 0.67 | 1263.00 | 24.7 |
| 1955 | KYGRA | 860624 | | 820 | 860701 | 930 | 860708 | 2 | | 155.00 | |
| 2021 | KYGRA | 860715 | | 815 | 860722 | 815 | 860801 | 2 | 0.05 | 52.00 | |
| 2065 | KYGRA | 860805 | | 846 | 860812 | 845 | 860819 | 5 | 1.98 | 3659.00 | 39.5 |
| 2123 | KYGRA | 860825 | | 900 | 860902 | 930 | 860912 | | | 1326.00 | 29.5 |
| 2138 | KYGRA | 860902 | | | 860909 | 845 | 860917 | | | 385.00 | 10.8 |
| 2144 | KYGRA | 860812 | | 845 | 860819 | 745 | 860918 | 1 | 0.33 | 535.00 | 34.4 |
| 2164 | KYGRA | 860909 | | 845 | 860916 | 840 | 860925 | | | 1409.00 | |
| 2184 | KYGRA | 860819 | | 750 | 860826 | 900 | 860926 | 4 | 0.67 | 1063.00 | 55.4 |
| 2302 | KYGRA | 861104 | | 920 | 861111 | 815 | 861118 | 6 | 4.03 | 7655.00 | 17.6 |
| 2309 | KYGRA | 861021 | | 835 | 861028 | 815 | 861121 | 3 | 0.30 | 893.00 | 35.3 |
| 2327 | KYGRA | 861111 | | 825 | 861118 | 830 | 861124 | 3 | 0.09 | 336.00 | 21.3 |
| 2386 | KYGRA | 861118 | | 830 | 861125 | 920 | 861211 | | | 942.00 | 25.1 |
| 2402 | KYGRA | 861202 | | 845 | 861209 | 815 | 861217 | 2 | 0.55 | 1490.00 | 13.7 |
| 2427 | KYGRA | 861209 | | 820 | 861216 | 754 | 870105 | 1 | 0.74 | 1270.00 | 6.9 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2567 | KYGRA | 861223 | | 830 | 861230 | | 870205 | 2 | | 1641.00 | 10.5 |
| 2568 | KYGRA | 861230 | | 900 | 870106 | 900 | 870205 | 1 | | 247.00 | 47.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN ueqiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1912 | KYGRA | 860603 | 4.13 | 3 |  | 1.03 | 1.05 | 500.0 | 4.13 | 80.9 | 33.3 |
| 1941 | KYGRA | 860617 | 4.08 |  |  | 1.05 | 1.00 | 280.0 | 4.10 | 91.2 | 39.8 |
| 1952 | KYGRA | 860610 | 4.30 | 3 |  | 1.00 | 1.07 | 525.0 | 4.27 | 60.6 | 24.7 |
| 1955 | KYGRA | 860624 |  | 3 |  | 1.00 | 1.05 | 150.0 | 5.13 | 16.8 | 29.2 |
| 2021 | KYGRA | 860715 |  |  |  | 1.08 | 0.95 | 50.0 | 3.67 |  | 122.1 |
| 2065 | KYGRA | 860805 | 4.09 |  | 21 | 1.07 | 1.06 | 525.0 | 4.10 | 90.7 | 35.8 |
| 2123 | KYGRA | 860825 | 4.24 |  |  | 1.07 | 1.15 | 525.0 | 4.21 | 65.0 | 26.5 |
| 2138 | KYGRA | 860902 | 4.60 |  |  | 1.10 | 1.24 | 350.0 | 4.65 | 26.6 | 8.4 |
| 2144 | KYGRA | 860812 | 4.12 |  |  | 1.08 | 1.09 | 480.0 | 4.11 | 83.9 | 32.1 |
| 2164 | KYGRA | 860909 | 4.42 |  |  | 1.00 | 1.20 | 525.0 | 4.45 | 37.8 | 14.1 |
| 2184 | KYGRA | 860819 | 3.92 | 3 | 21 | 1.04 | 1.01 | 535.0 | 3.92 | 131.5 | 55.0 |
| 2302 | KYGRA | 861104 | 4.46 |  |  | 1.09 | 1.11 | 540.0 | 4.47 | 40.3 | 14.3 |
| 2309 | KYGRA | 861021 | 4.13 |  |  | 1.04 | 1.07 | 525.0 | 4.14 | 78.0 | 29.9 |
| 2327 | KYGRA | 861111 | 4.36 |  |  | 1.01 | 1.14 | 290.0 | 4.27 | 60.8 | 20.4 |
| 2386 | KYGRA | 861118 | 4.23 |  |  | 1.06 | 1.05 | 530.0 | 4.28 | 63.6 | 23.1 |
| 2402 | KYGRA | 861202 | 4.46 |  |  | 1.11 | 1.11 | 525.0 | 4.49 | 41.2 | 13.3 |
| 2427 | KYGRA | 861209 | 5.18 |  |  | 1.54 | 1.61 | 500.0 | 5.12 | 12.6 | 2.2 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2567 | KYGRA | 861223 | 4.60 |  |  | 1.03 | 1.19 | 525.0 | 4.59 | 31.3 | 9.9 |
| 2568 | KYGRA | 861230 | 3.93 |  |  | 1.07 | 0.98 | 225.0 | 4.01 | 107.1 | 48.7 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1912 | KYGRA | 860603 | 0.015 | 0.106 | -0.010 | -0.030 | -0.012 | 1.336 | 3.522 | 0.298 | 0.042 |
| | | | 0.789 | 2.978 | -0.223 | -0.319 | -0.151 | 21.508 | 36.629 | 16.523 | 1.839 |
| 1941 | KYGRA | 860617 | 0.024 | 0.123 | 0.000 | 0.014 | 0.000 | 2.755 | 3.712 | 0.284 | 0.030 |
| | | | 1.251 | 3.475 | 0.000 | 0.145 | 0.000 | 44.360 | 38.602 | 15.755 | 1.284 |
| 1952 | KYGRA | 860610 | 0.015 | 0.169 | -0.002 | 0.034 | -0.018 | 1.296 | 2.478 | 0.264 | 0.101 |
| | | | 0.779 | 4.762 | -0.036 | 0.360 | -0.226 | 20.864 | 25.767 | 14.632 | 4.383 |
| 1955 | KYGRA | 860624 | 0.054 | 0.300 | -0.009 | -0.024 | -0.005 | 3.017 | 7.195 | 0.727 | 0.152 |
| | | | 2.844 | 8.458 | -0.196 | -0.248 | -0.067 | 48.568 | 74.826 | 40.274 | 6.623 |
| 2021 | KYGRA | 860715 | 0.063 | 0.421 | -0.006 | 0.032 | -0.006 | 7.013 | 13.680 | 1.234 | 0.256 |
| | | | 3.305 | 11.864 | -0.131 | 0.333 | -0.073 | 112.903 | 142.271 | 68.354 | 11.131 |
| 2065 | KYGRA | 860805 | 0.021 | 0.086 | -0.008 | -0.054 | -0.016 | 1.836 | 3.856 | 0.317 | 0.024 |
| | | | 1.111 | 2.412 | -0.178 | -0.563 | -0.196 | 29.556 | 40.103 | 17.537 | 1.047 |
| 2123 | KYGRA | 860825 | 0.016 | 0.156 | -0.021 | -0.173 | -0.121 | 2.105 | 2.761 | 0.237 | 0.076 |
| | | | 0.845 | 4.409 | -0.449 | -1.813 | -1.513 | 33.883 | 28.717 | 13.145 | 3.298 |
| 2138 | KYGRA | 860902 | 0.012 | 0.050 | -0.016 | 0.044 | -0.003 | 0.647 | 0.807 | 0.059 | -0.003 |
| | | | 0.654 | 1.411 | -0.346 | 0.459 | -0.040 | 10.413 | 8.393 | 3.261 | -0.111 |
| 2144 | KYGRA | 860812 | 0.018 | 0.119 | -0.008 | 0.055 | -0.004 | 1.582 | 3.058 | 0.119 | 0.009 |
| | | | 0.949 | 3.357 | -0.169 | 0.576 | -0.053 | 25.469 | 31.800 | 6.609 | 0.381 |
| 2164 | KYGRA | 860909 | 0.006 | 0.047 | -0.009 | 0.035 | -0.027 | 0.549 | 1.782 | 0.132 | 0.056 |
| | | | 0.309 | 1.318 | -0.201 | 0.369 | -0.337 | 8.831 | 18.536 | 7.320 | 2.420 |
| 2184 | KYGRA | 860819 | 0.029 | 0.193 | -0.009 | 0.028 | -0.014 | 2.433 | 5.242 | 0.354 | 0.036 |
| | | | 1.538 | 5.455 | -0.191 | 0.298 | -0.172 | 39.163 | 54.516 | 19.611 | 1.565 |
| 2302 | KYGRA | 861104 | 0.004 | 0.069 | -0.020 | 0.060 | -0.063 | 0.617 | 1.530 | 0.115 | 0.024 |
| | | | 0.232 | 1.951 | -0.440 | 0.628 | -0.789 | 9.937 | 15.907 | 6.393 | 1.024 |
| 2309 | KYGRA | 861021 | 0.022 | 0.178 | -0.017 | -0.025 | -0.044 | 2.220 | 2.048 | 0.047 | 0.006 |
| | | | 1.155 | 5.025 | -0.366 | -0.260 | -0.556 | 35.738 | 21.300 | 2.624 | 0.263 |
| 2327 | KYGRA | 861111 | -0.002 | 0.036 | 0.017 | 0.047 | 0.090 | 1.486 | 1.479 | 0.032 | 0.017 |
| | | | -0.080 | 1.011 | 0.366 | 0.491 | 1.122 | 23.926 | 15.387 | 1.765 | 0.722 |
| 2386 | KYGRA | 861118 | -0.000 | 0.048 | 0.012 | -0.015 | -0.023 | 1.297 | 2.213 | 0.192 | -0.009 |
| | | | -0.015 | 1.348 | 0.256 | -0.162 | -0.289 | 20.890 | 23.012 | 10.626 | -0.412 |
| 2402 | KYGRA | 861202 | -0.004 | 0.059 | -0.005 | 0.064 | -0.036 | 1.053 | 1.048 | 0.073 | 0.015 |
| | | | -0.223 | 1.662 | -0.108 | 0.669 | -0.450 | 16.953 | 10.897 | 4.033 | 0.667 |
| 2427 | KYGRA | 861209 | -0.005 | 0.009 | -0.009 | 0.095 | -0.053 | 0.145 | 0.289 | -0.011 | -0.003 |
| | | | -0.247 | 0.257 | -0.188 | 0.997 | -0.668 | 2.341 | 3.009 | -0.585 | -0.135 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2567 | KYGRA | 861223 | 0.012<br>0.629 | 0.079<br>2.222 | -0.086<br>-1.876 | 0.032<br>0.336 | -0.083<br>-1.036 | 0.430<br>6.926 | 1.062<br>11.041 | 0.039<br>2.186 | 0.034<br>1.467 |
| 2568 | KYGRA | 861230 | 0.021<br>1.081 | 0.176<br>4.973 | -0.095<br>-2.063 | 0.029<br>0.304 | -0.091<br>-1.137 | 2.844<br>45.793 | 4.411<br>45.870 | 0.550<br>30.460 | 0.053<br>2.294 |

```
ID       STN      BD            K         CA         MG
                            ug/ml      ug/ml      ug/ml
                         umoles/l   umoles/l   umoles/l

1912     KYGRA    860603    0.019      0.059      0.010
                            0.478      1.463      0.430

1941     KYGRA    860617    0.017      0.424      0.039
                            0.439     10.581      1.613

1952     KYGRA    860610    0.016      0.093      0.020
                            0.415      2.311      0.835

1955     KYGRA    860624    0.087      1.029      1.237
                            2.220     25.663     50.905

2021     KYGRA    860715    0.093      1.558      0.131
                            2.377     38.866      5.397

2065     KYGRA    860805    0.016      0.143      0.011
                            0.420      3.570      0.460

2123     KYGRA    860825    0.018      0.204      0.028
                            0.450      5.090      1.142

2138     KYGRA    860902    0.005      0.036      0.007
                            0.117      0.896      0.292

2144     KYGRA    860812   -0.004      0.083      0.006
                           -0.094      2.067      0.241

2164     KYGRA    860909    0.062      0.035      0.007
                            1.588      0.871      0.304

2184     KYGRA    860819    0.025      0.145      0.019
                            0.627      3.613      0.765

2302     KYGRA    861104    0.005      0.017      0.003
                            0.125      0.419      0.124

2309     KYGRA    861021    0.005      0.118      0.012
                            0.133      2.955      0.480

2327     KYGRA    861111   -0.002      0.047      0.004
                           -0.043      1.172      0.162

2386     KYGRA    861118    0.008      0.034      0.004
                            0.212      0.847      0.178

2402     KYGRA    861202    0.011      0.018      0.003
                            0.287      0.444      0.109

2427     KYGRA    861209   -0.002     -0.004      0.000
                           -0.061     -0.106      0.020
```

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 2567 | KYGRA | 861223 | 0.007 | 0.039 | 0.007 |
| | | | 0.176 | 0.985 | 0.293 |
| 2568 | KYGRA | 861230 | 0.044 | 0.076 | 0.010 |
| | | | 1.118 | 1.897 | 0.411 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1553 | KYMAM | 860114 | 2 | 930 | 860121 | 840 | 860127 | 3 |  | 1528.00 | 22.3 |
| 1586 | KYMAM | 860121 | 2 | 845 | 860128 | 912 | 860205 | 1 | 0.03 | 32.00 |  |
| 1604 | KYMAM | 860128 |  | 912 | 860204 | 923 | 860211 | 3 | 0.58 | 1478.00 | 27.2 |
| 1623 | KYMAM | 860204 | 2 | 923 | 860211 | 900 | 860221 | 4 | 1.88 | 3092.00 | 14.1 |
| 1642 | KYMAM | 860211 | 2 | 900 | 860218 | 900 | 860227 | 2 |  | 1616.00 | 15.5 |
| 1686 | KYMAM | 860304 |  | 900 | 860311 | 910 | 860317 | 2 | 0.25 | 444.00 | 23.0 |
| 1706 | KYMAM | 860311 |  | 900 | 860318 | 925 | 860327 | 2 | 1.67 | 2847.00 | 9.4 |
| 1734 | KYMAM | 860318 |  | 925 | 860325 | 830 | 860409 | 2 | 1.37 | 2302.00 | 13.1 |
| 1735 | KYMAM | 860325 |  | 830 | 860401 | 1330 | 860409 | 1 |  | 24.00 |  |
| 1746 | KYMAM | 860401 |  | 1345 | 860408 | 900 | 860411 | 1 | 0.08 | 109.00 |  |
| 1781 | KYMAM | 860408 |  | 900 | 860415 | 1100 | 860425 | 1 | 0.01 | 8.00 |  |
| 1791 | KYMAM | 860415 |  | 1100 | 860422 | 1005 | 860501 | 3 | 1.37 | 2303.00 | 18.3 |
| 1820 | KYMAM | 860422 |  | 1005 | 860429 | 930 | 860508 |  |  | 101.00 |  |
| 1828 | KYMAM | 860429 |  | 930 | 860506 | 930 | 860512 |  |  | 136.00 |  |
| 1838 | KYMAM | 860506 |  | 930 | 860513 | 900 | 860520 | 3 |  | 871.00 | 21.1 |
| 1846 | KYMAM | 860513 |  | 900 | 860520 | 930 | 860527 | 5 |  | 3264.00 | 23.3 |
| 1861 | KYMAM | 860520 |  | 930 | 860527 | 800 | 860602 | 4 | 1.68 | 28.40 | 18.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1553 | KYMAM | 860114 | 4.17 | | | 1.02 | 1.00 | 550.000 | 4.28 | 59.77 | 27.3 |
| 1586 | KYMAM | 860121 | | | | 1.03 | 1.04 | 30.000 | 4.56 | | 27.6 |
| 1604 | KYMAM | 860128 | 4.11 | | | 1.02 | 1.02 | 450.000 | 4.23 | 66.52 | 29.9 |
| 1623 | KYMAM | 860204 | 4.29 | | | 0.96 | 1.11 | 550.000 | 4.38 | 42.44 | 17.6 |
| 1642 | KYMAM | 860211 | 4.49 | | | 1.01 | 1.13 | 550.000 | 4.60 | 26.64 | 12.8 |
| 1686 | KYMAM | 860304 | 5.07 | 3 | 33 | 1.64 | 0.83 | 370.000 | 5.96 | | 22.2 |
| 1706 | KYMAM | 860311 | 4.55 | | 33 | 0.98 | 1.16 | 400.000 | 4.65 | 28.90 | 12.0 |
| 1734 | KYMAM | 860318 | 4.40 | | | 1.01 | 1.12 | 550.000 | 4.67 | 25.69 | 11.7 |
| 1735 | KYMAM | 860325 | | 3 | | 1.05 | 1.13 | 30.000 | 3.63 | | 138.6 |
| 1746 | KYMAM | 860401 | | 3 | | 1.03 | 1.09 | 100.000 | 5.02 | 17.93 | 24.4 |
| 1781 | KYMAM | 860408 | | | | 0.86 | 1.02 | 5.000 | 5.99 | | 50.2 |
| 1791 | KYMAM | 860415 | 4.25 | | | 1.03 | 1.07 | 550.000 | 4.43 | 39.44 | 19.0 |
| 1820 | KYMAM | 860422 | | 3 | | 0.91 | 1.11 | 100.000 | 4.62 | 29.93 | 13.5 |
| 1828 | KYMAM | 860429 | | | | 1.08 | 1.09 | 130.000 | 4.53 | 33.95 | 14.1 |
| 1838 | KYMAM | 860506 | 4.25 | | | 1.07 | 1.00 | 550.000 | 4.41 | 48.50 | 22.9 |
| 1846 | KYMAM | 860513 | 4.11 | 3 | 34 | 1.04 | 1.04 | 525.000 | 4.21 | 68.40 | 32.1 |
| 1861 | KYMAM | 860520 | 4.22 | | | 1.01 | 1.03 | 550.000 | 4.34 | 52.90 | 23.4 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1553 | KYMAM | 860114 | 0.018 | 0.282 | -0.005 | 0.011 | -0.036 | 1.900 | 2.447 | 0.346 | 0.163 |
| | | | 0.946 | 7.953 | -0.100 | 0.112 | -0.447 | 30.590 | 25.445 | 19.151 | 7.073 |
| 1586 | KYMAM | 860121 | 0.053 | 0.532 | -0.012 | -0.010 | -0.035 | 3.540 | 3.597 | 1.087 | 0.105 |
| | | | 2.788 | 15.015 | -0.254 | -0.100 | -0.436 | 56.986 | 37.408 | 60.225 | 4.564 |
| 1604 | KYMAM | 860128 | 0.012 | 0.457 | -0.007 | -0.013 | -0.056 | 1.381 | 3.079 | 0.304 | 0.247 |
| | | | 0.614 | 12.883 | -0.149 | -0.141 | -0.698 | 22.229 | 32.018 | 16.823 | 10.734 |
| 1623 | KYMAM | 860204 | 0.006 | 0.096 | -0.008 | -0.020 | 0.073 | 1.004 | 1.664 | 0.145 | 0.042 |
| | | | 0.334 | 2.713 | -0.174 | -0.209 | 0.910 | 16.157 | 17.306 | 8.032 | 1.846 |
| 1642 | KYMAM | 860211 | 0.006 | 0.126 | -0.020 | -0.037 | -0.061 | 1.294 | 1.397 | 0.157 | 0.069 |
| | | | 0.327 | 3.560 | -0.432 | -0.384 | -0.766 | 20.828 | 14.532 | 8.678 | 3.007 |
| 1686 | KYMAM | 860304 | 0.038 | 0.601 | -0.013 | 0.051 | -0.061 | 2.603 | 4.381 | 1.287 | 0.425 |
| | | | 1.992 | 16.953 | -0.280 | 0.538 | -0.766 | 41.906 | 45.562 | 71.322 | 18.490 |
| 1706 | KYMAM | 860311 | 0.009 | 0.147 | -0.011 | 0.042 | -0.069 | 0.767 | 1.651 | 0.302 | 0.101 |
| | | | 0.462 | 4.147 | -0.242 | 0.443 | -0.864 | 12.355 | 17.166 | 16.712 | 4.410 |
| 1734 | KYMAM | 860318 | 0.006 | 0.210 | -0.014 | -0.024 | -0.044 | 0.657 | 1.630 | 0.216 | 0.116 |
| | | | 0.290 | 5.931 | -0.303 | -0.250 | -0.551 | 10.571 | 16.954 | 11.974 | 5.028 |
| 1735 | KYMAM | 860325 | 0.090 | 1.745 | -0.014 | -0.259 | -0.044 | 10.449 | 20.818 | 3.444 | 1.224 |
| | | | 4.725 | 49.221 | -0.297 | -2.714 | -0.553 | 168.233 | 216.507 | 190.817 | 53.233 |
| 1746 | KYMAM | 860401 | 0.033 | 0.393 | -0.014 | -0.053 | -0.047 | 2.606 | 5.578 | 1.223 | 0.392 |
| | | | 1.736 | 11.096 | -0.296 | -0.558 | -0.585 | 41.958 | 58.015 | 67.778 | 17.045 |
| 1781 | KYMAM | 860408 | 0.078 | 1.207 | -0.061 | -0.105 | -0.022 | 4.671 | 10.931 | 2.358 | 1.064 |
| | | | 4.130 | 34.031 | -1.317 | -1.105 | -0.271 | 75.210 | 113.686 | 130.625 | 46.281 |
| 1791 | KYMAM | 860415 | 0.014 | 0.076 | -0.010 | 0.022 | -0.009 | 1.137 | 2.282 | 0.361 | 0.037 |
| | | | 0.730 | 2.136 | -0.207 | 0.232 | -0.107 | 18.302 | 23.734 | 20.002 | 1.601 |
| 1820 | KYMAM | 860422 | 0.033 | 0.157 | -0.017 | 0.010 | -0.007 | 0.673 | 1.863 | 0.195 | 0.180 |
| | | | 1.746 | 4.427 | -0.366 | 0.108 | -0.091 | 10.828 | 19.370 | 10.781 | 7.816 |
| 1828 | KYMAM | 860429 | 0.008 | 0.116 | -0.006 | 0.032 | -0.009 | 0.756 | 1.730 | 0.057 | 0.164 |
| | | | 0.424 | 3.271 | -0.122 | 0.341 | -0.109 | 12.166 | 17.993 | 3.175 | 7.144 |
| 1838 | KYMAM | 860506 | 0.013 | 0.128 | -0.007 | 0.032 | -0.014 | 1.706 | 2.543 | 0.557 | 0.083 |
| | | | 0.696 | 3.607 | -0.149 | 0.338 | -0.174 | 27.460 | 26.448 | 30.868 | 3.591 |
| 1846 | KYMAM | 860513 | 0.020 | 0.183 | -0.010 | 0.038 | 0.072 | 1.889 | 3.652 | 0.468 | 0.083 |
| | | | 1.071 | 5.170 | -0.212 | 0.402 | 0.905 | 30.419 | 37.984 | 25.910 | 3.621 |
| 1861 | KYMAM | 860520 | 0.013 | 0.101 | -0.019 | 0.016 | -0.017 | 1.336 | 2.546 | 0.393 | 0.033 |
| | | | 0.689 | 2.844 | -0.409 | 0.167 | -0.211 | 21.514 | 26.475 | 21.767 | 1.426 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1553 | KYMAN | 860114 | 0.029 | 0.148 | 0.030 |
| | | | 0.752 | 3.681 | 1.217 |
| 1586 | KYMAN | 860121 | 0.152 | 0.827 | 0.101 |
| | | | 3.899 | 20.621 | 4.137 |
| 1604 | KYMAN | 860128 | 0.036 | 0.164 | 0.033 |
| | | | 0.926 | 4.089 | 1.372 |
| 1623 | KYMAN | 860204 | 0.008 | 0.108 | 0.001 |
| | | | 0.210 | 2.705 | 0.035 |
| 1642 | KYMAN | 860211 | 0.030 | 0.278 | 0.023 |
| | | | 0.757 | 6.935 | 0.947 |
| 1686 | KYMAN | 860304 | 0.114 | | |
| | | | 2.917 | | |
| 1706 | KYMAN | 860311 | 0.023 | 0.164 | 0.019 |
| | | | 0.601 | 4.086 | 0.798 |
| 1734 | KYMAN | 860318 | 0.031 | 0.187 | 0.025 |
| | | | 0.790 | 4.675 | 1.015 |
| 1735 | KYMAN | 860325 | 0.205 | 2.211 | 0.407 |
| | | | 5.237 | 55.171 | 16.739 |
| 1746 | KYMAN | 860401 | 0.223 | 1.141 | 0.118 |
| | | | 5.698 | 28.474 | 4.834 |
| 1781 | KYMAN | 860408 | 0.663 | 3.086 | 0.574 |
| | | | 16.971 | 76.984 | 23.614 |
| 1791 | KYMAN | 860415 | 0.055 | 0.130 | 0.016 |
| | | | 1.401 | 3.253 | 0.657 |
| 1820 | KYMAN | 860422 | 0.103 | 0.248 | 0.049 |
| | | | 2.640 | 6.197 | 1.998 |
| 1828 | KYMAN | 860429 | 0.098 | 0.076 | 0.036 |
| | | | 2.498 | 1.889 | 1.464 |
| 1838 | KYMAN | 860506 | 0.034 | 0.091 | 0.020 |
| | | | 0.876 | 2.279 | 0.838 |
| 1846 | KYMAN | 860513 | 0.074 | 0.316 | 0.032 |
| | | | 1.897 | 7.882 | 1.302 |
| 1861 | KYMAN | 860520 | 0.020 | 0.152 | 0.014 |
| | | | 0.522 | 3.801 | 0.582 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1913 | KYMAM | 860527 | | 800 | 860603 | 900 | 860617 | 3 | 0.27 | 393.00 | 18.1 |
| 1914 | KYMAM | 860603 | | 900 | 860610 | 800 | 860617 | 4 | 2.21 | 3709.00 | 16.2 |
| 1926 | KYMAM | 860610 | | 800 | 860617 | 850 | 860623 | 2 | 0.39 | 630.00 | 13.1 |
| 1953 | KYMAM | 860617 | | 850 | 860624 | 900 | 860703 | 1 | 0.14 | 188.00 | 28.2 |
| 1976 | KYMAM | 860701 | | 925 | 860708 | 900 | 860716 | 2 | 1.48 | 2587.00 | 11.0 |
| 1988 | KYMAM | 860708 | | 900 | 860715 | 940 | 860724 | 2 | 0.10 | 126.00 | |
| 2013 | KYMAM | 860624 | | 900 | 860701 | 925 | 860730 | 1 | 0.09 | 118.00 | |
| 2031 | KYMAM | 860722 | | 900 | 860729 | 850 | 860807 | 1 | 0.02 | 95.00 | |
| 2043 | KYMAM | 860729 | | 850 | 860805 | 915 | 860808 | 1 | 0.69 | 1736.00 | 20.7 |
| 2085 | KYMAM | 860815 | | 1000 | 860819 | 850 | 860827 | 2 | 1.55 | 1757.00 | 25.3 |
| 2112 | KYMAM | 860819 | | 850 | 860826 | 850 | 860904 | 1 | 0.06 | 24.00 | |
| 2132 | KYMAM | 860902 | | 850 | 860909 | 835 | 860916 | 2 | 0.45 | 559.00 | 16.2 |
| 2157 | KYMAM | 860909 | | 835 | 860916 | 930 | 860924 | 1 | 1.95 | 2779.00 | 5.9 |
| 2165 | KYMAM | 860826 | | 850 | 860902 | 850 | 860925 | 5 | | 1963.00 | 15.6 |
| 2194 | KYMAM | 860916 | | 930 | 860923 | 930 | 861003 | 4 | | 4889.00 | 12.2 |
| 2217 | KYMAM | 860930 | | 945 | 861007 | 850 | 861016 | 3 | 0.31 | 432.00 | 15.3 |
| 2229 | KYMAM | 861007 | | 850 | 861014 | 900 | 861021 | 2 | 0.61 | 977.00 | |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2241 | KYMAM | 860923 |  | 930 | 860930 | 945 | 861027 | 1 | 0.82 | 1430.00 | 18.0 |
| 2270 | KYMAM | 861021 |  | 930 | 861028 | 930 | 861031 | 5 |  | 2114.00 |  |
| 2310 | KYMAM | 861104 |  | 930 | 861111 | 945 | 861121 | 6 |  | 1144.00 |  |
| 2333 | KYMAM | 861111 |  | 945 | 861118 | 930 | 861125 | 3 | 0.07 | 190.00 |  |
| 2361 | KYMAM | 861118 |  | 930 | 861124 | 915 | 861203 | 3 | 0.27 | 372.00 | 27.6 |
| 2387 | KYMAM | 861124 |  | 930 | 861202 | 945 | 861211 |  |  | 4174.00 | 8.6 |
| 2388 | KYMAM | 861202 |  | 945 | 861209 | 853 | 861211 | 4 | 2.42 | 4461.00 | 9.1 |
| 2428 | KYMAM | 861209 |  | 900 | 861216 | 915 | 870105 | 1 | 0.20 | 345.00 | 8.2 |
| 2457 | KYMAM | 861223 |  | 915 | 861230 | 915 | 870108 | 2 | 0.81 | 1583.00 | 11.1 |
| 2474 | KYMAM | 861230 |  | 915 | 870106 | 920 | 870112 |  |  | 67.00 |  |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1913 | KYMAM | 860527 | 4.21 | | | 1.02 | 1.06 | 340.0 | 4.30 | 55.3 | 23.6 |
| 1914 | KYMAM | 860603 | 4.20 | | | 1.01 | 1.07 | 550.0 | 4.30 | 54.0 | 21.8 |
| 1926 | KYMAM | 860610 | 4.29 | | | 1.04 | 1.01 | 550.0 | 4.40 | 46.2 | 19.9 |
| 1953 | KYMAM | 860617 | 4.03 | 3 | | 1.08 | 1.00 | 140.0 | 4.20 | 71.6 | 29.6 |
| 1976 | KYMAM | 860701 | 4.35 | 3 | | 1.03 | 1.09 | 550.0 | 4.50 | 38.7 | 14.6 |
| 1988 | KYMAM | 860708 | | 3 | | 1.11 | 0.98 | 120.0 | 3.94 | 136.8 | 68.0 |
| 2013 | KYMAM | 860624 | | 3 | | 1.06 | 1.01 | 100.0 | 4.25 | 63.5 | 33.2 |
| 2031 | KYMAM | 860722 | | | | 1.05 | 1.02 | 100.0 | 4.03 | 99.0 | 43.8 |
| 2043 | KYMAM | 860729 | 4.10 | 3 | | 1.05 | 1.00 | 550.0 | 4.21 | 71.2 | 32.9 |
| 2085 | KYMAM | 860815 | 3.95 | 3 | 21 | 1.05 | 1.07 | 550.0 | 4.04 | 101.2 | 39.2 |
| 2112 | KYMAM | 860819 | | 3 | | 1.18 | 1.02 | 20.0 | 3.61 | | 126.4 |
| 2132 | KYMAM | 860902 | 4.14 | | | 1.05 | 1.09 | 475.0 | 4.26 | 60.5 | 24.1 |
| 2157 | KYMAM | 860909 | 4.58 | | | 1.06 | 1.20 | 550.0 | 4.71 | 23.8 | 7.6 |
| 2165 | KYMAM | 860826 | 4.18 | 3 | | 1.07 | 1.10 | 550.0 | 4.27 | 59.0 | 24.0 |
| 2194 | KYMAM | 860916 | 4.52 | | 21 | 1.06 | 1.15 | 550.0 | 4.47 | 37.9 | 14.0 |
| 2217 | KYMAM | 860930 | 4.45 | 3 | | 1.02 | 1.10 | 350.0 | 4.46 | 41.8 | 18.1 |
| 2229 | KYMAM | 861007 | 4.23 | 3 | | 1.09 | 1.16 | 500.0 | 4.38 | 47.4 | 16.7 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2241 | KYMAN | 860923 | 4.15 | | | 1.06 | 1.12 | 550.0 | 4.21 | 67.1 | 25.8 |
| 2270 | KYMAN | 861021 | 4.26 | | | 1.11 | 1.13 | 550.0 | 4.39 | 44.2 | 17.1 |
| 2310 | KYMAN | 861104 | 4.35 | | | 1.03 | 1.18 | 450.0 | 4.49 | 35.9 | 12.9 |
| 2333 | KYMAN | 861111 | | | | 1.09 | 1.07 | 180.0 | 4.13 | 77.6 | 32.7 |
| 2361 | KYMAN | 861118 | 4.01 | 3 | | 1.00 | 1.02 | 280.0 | 4.09 | 91.0 | 40.6 |
| 2387 | KYMAN | 861124 | 4.53 | | | 1.09 | 1.18 | 550.0 | 4.63 | 30.9 | 9.7 |
| 2388 | KYMAN | 861202 | 4.40 | | | 1.06 | 1.13 | 550.0 | 4.53 | 35.2 | 12.8 |
| 2428 | KYMAN | 861209 | 4.48 | 3 | | 1.12 | 1.21 | 240.0 | 4.55 | 33.0 | 11.0 |
| 2457 | KYMAN | 861223 | 4.37 | | | 1.08 | 1.15 | 550.0 | 4.55 | 33.7 | 11.4 |
| 2474 | KYMAN | 861230 | | 3 | | 1.15 | 0.98 | 65.0 | 3.91 | | 65.3 |

```
ID        STN       DD              F         CL        NO2        PO4         BR        NO3        SO4        NH4         NA
                                ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml      ug/ml
                             umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l   umoles/l

 1913     KYMAN     860527      0.012      0.092     -0.012     -0.029     -0.010      1.359      2.534      0.155      0.056
                                0.648      2.606     -0.257     -0.304     -0.124     21.876     26.353      8.608      2.428

 1914     KYMAN     860603      0.011      0.087     -0.012     -0.028     -0.010      1.062      2.190      0.191      0.045
                                0.560      2.440     -0.257     -0.296     -0.120     17.093     22.772     10.586      1.973

 1926     KYMAN     860610      0.017      0.299     -0.014      0.010     -0.017      1.483      1.522      0.117      0.190
                                0.879      8.426     -0.294      0.100     -0.211     23.872     15.832      6.476      8.257

 1953     KYMAN     860617      0.017      0.083     -0.002      0.041     -0.018      2.561      2.053      0.035      0.067
                                0.875      2.331     -0.036      0.428     -0.221     41.230     21.354      1.938      2.929

 1976     KYMAN     860701      0.007      0.099     -0.007      0.031     -0.014      0.767      1.635      0.116      0.079
                                0.369      2.801     -0.142      0.326     -0.179     12.347     17.001      6.440      3.430

 1988     KYMAN     860708      0.058      0.640     -0.003      0.040     -0.018      4.512      7.708      0.608      0.363
                                3.078     18.048     -0.067      0.416     -0.226     72.650     80.167     33.703     15.803

 2013     KYMAN     860624      0.029      0.265     -0.003      0.043     -0.007      2.864      3.534      0.408      0.129
                                1.511      7.471     -0.065      0.456     -0.086     46.103     36.755     22.580      5.614

 2031     KYMAN     860722      0.026      0.145     -0.010      0.035     -0.004      1.835      4.653      0.223      0.157
                                1.381      4.099     -0.219      0.366     -0.055     29.541     48.392     12.371      6.826

 2043     KYMAN     860729      0.027      0.158     -0.009      0.039     -0.004      1.982      3.507      0.385      0.089
                                1.399      4.460     -0.188      0.415     -0.054     31.910     36.477     21.348      3.857

 2085     KYMAN     860815      0.028      0.119     -0.004     -0.026     -0.021      1.660      4.096      0.230      0.023
                                1.463      3.348     -0.085     -0.271     -0.266     26.730     42.595     12.726      1.000

 2112     KYMAN     860819      0.109      0.640     -0.016     -0.103     -0.079      6.664     15.501      0.806      0.714
                                5.754     18.044     -0.342     -1.082     -0.994    107.288    161.208     44.642     31.072

 2132     KYMAN     860902      0.017      0.075     -0.023      0.043     -0.004      1.546      2.375      0.174      0.028
                                0.890      2.110     -0.503      0.449     -0.050     24.897     24.704      9.655      1.203

 2157     KYMAN     860909      0.005      0.064     -0.008      0.035     -0.028      0.334      1.071      0.069      0.038
                                0.254      1.796     -0.165      0.371     -0.347      5.376     11.143      3.798      1.669

 2165     KYMAN     860826      0.010      0.059     -0.009      0.033     -0.027      1.138      2.850      0.230      0.041
                                0.502      1.651     -0.207      0.350     -0.335     18.320     29.640     12.721      1.771

 2194     KYMAN     860916      0.011      0.091     -0.009      0.033     -0.016      0.577      1.617      0.103      0.044
                                0.597      2.561     -0.198      0.343     -0.194      9.291     16.820      5.727      1.931

 2217     KYMAN     860930      0.015      0.398      0.000      0.021      0.000      1.113      2.113      0.099      0.258
                                0.778     11.237      0.000      0.220      0.000     17.922     21.970      5.484     11.226

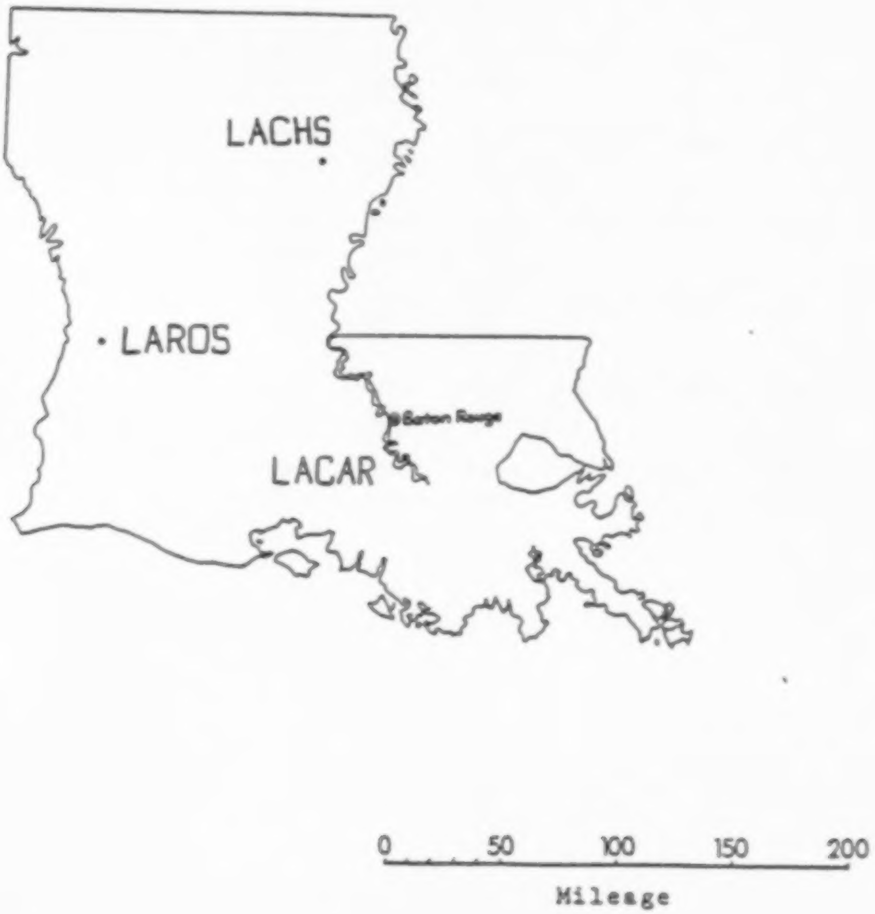
 2229     KYMAN     861007      0.009      0.075      0.000      0.024      0.000      0.738      1.960      0.120      0.028
                                0.470      2.109      0.000      0.248      0.000     11.883     20.385      6.656      1.205
```

| ID | STN | DD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2241 | KYMAN | 860923 | 0.013 | 0.141 | 0.000 | 0.027 | 0.000 | 1.058 | 2.893 | 0.105 | 0.049 |
| | | | 0.686 | 3.979 | 0.000 | 0.286 | 0.000 | 17.039 | 30.092 | 5.830 | 2.133 |
| 2270 | KYMAN | 861021 | 0.011 | 0.050 | -0.005 | 0.075 | -0.020 | 1.119 | 1.725 | 0.177 | 0.015 |
| | | | 0.601 | 1.420 | -0.116 | 0.786 | -0.253 | 18.014 | 17.940 | 9.811 | 0.641 |
| 2310 | KYMAN | 861104 | 0.008 | 0.073 | -0.016 | 0.062 | -0.042 | 0.585 | 1.414 | 0.126 | 0.038 |
| | | | 0.406 | 2.067 | -0.357 | 0.648 | -0.530 | 9.411 | 14.702 | 6.983 | 1.647 |
| 2333 | KYMAN | 861111 | 0.010 | 0.123 | 0.024 | 0.182 | -0.011 | 2.232 | 2.800 | 0.138 | 0.045 |
| | | | 0.516 | 3.477 | 0.527 | 1.909 | -0.138 | 35.920 | 29.121 | 7.635 | 1.940 |
| 2361 | KYMAN | 861118 | 0.015 | 0.134 | 0.030 | 0.065 | 0.105 | 2.758 | 3.705 | 0.760 | 0.027 |
| | | | 0.794 | 3.775 | 0.654 | 0.679 | 1.310 | 44.489 | 38.536 | 42.129 | 1.176 |
| 2387 | KYMAN | 861124 | 0.004 | 0.096 | 0.012 | 0.054 | -0.031 | 0.687 | 0.945 | 0.111 | 0.052 |
| | | | 0.215 | 2.708 | 0.258 | 0.570 | -0.392 | 11.060 | 9.067 | 6.171 | 2.258 |
| 2388 | KYMAN | 861202 | 0.007 | 0.081 | 0.011 | 0.049 | -0.031 | 0.985 | 1.201 | 0.152 | 0.028 |
| | | | 0.373 | 2.293 | 0.245 | 0.519 | -0.392 | 15.865 | 12.488 | 8.431 | 1.206 |
| 2420 | KYMAN | 861209 | -0.005 | 0.127 | -0.009 | 0.092 | -0.054 | 0.313 | 1.349 | 0.037 | 0.018 |
| | | | -0.248 | 3.595 | -0.191 | 0.967 | -0.675 | 5.037 | 14.032 | 2.025 | 0.778 |
| 2457 | KYMAN | 861223 | -0.011 | 0.121 | -0.026 | -0.045 | 0.095 | 0.936 | 0.948 | 0.078 | 0.054 |
| | | | -0.605 | 3.401 | -0.562 | -0.468 | 1.186 | 15.070 | 9.855 | 4.299 | 2.364 |
| 2474 | KYMAN | 861230 | 0.040 | 0.352 | -0.007 | -0.053 | -0.011 | 7.332 | 4.479 | 0.992 | 0.077 |
| | | | 2.089 | 9.927 | -0.157 | -0.551 | -0.144 | 118.038 | 46.579 | 54.937 | 3.353 |

| ID | STN | DD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1913 | KYMAN | 860527 | 0.019 | 0.239 | 0.038 |
| | | | 0.477 | 5.952 | 1.544 |
| 1914 | KYMAN | 860603 | 0.014 | 0.032 | 0.007 |
| | | | 0.352 | 0.797 | 0.296 |
| 1926 | KYMAN | 860610 | 0.023 | 0.096 | 0.035 |
| | | | 0.583 | 2.384 | 1.445 |
| 1953 | KYMAN | 860617 | 0.028 | 0.216 | 0.036 |
| | | | 0.715 | 5.396 | 1.475 |
| 1976 | KYMAN | 860701 | 0.017 | 0.115 | 0.020 |
| | | | 0.431 | 2.858 | 0.816 |
| 1988 | KYMAN | 860708 | 0.089 | 1.067 | 0.142 |
| | | | 2.286 | 26.633 | 5.834 |
| 2013 | KYMAN | 860624 | 0.112 | 0.587 | 0.086 |
| | | | 2.872 | 14.644 | 3.526 |
| 2031 | KYMAN | 860722 | 0.064 | 0.194 | 0.040 |
| | | | 1.643 | 4.837 | 1.666 |
| 2043 | KYMAN | 860729 | 0.019 | 0.346 | 0.035 |
| | | | 0.498 | 8.630 | 1.438 |
| 2085 | KYMAN | 860815 | 0.010 | 0.122 | 0.015 |
| | | | 0.252 | 3.042 | 0.608 |
| 2112 | KYMAN | 860819 | 0.181 | 0.863 | 0.211 |
| | | | 4.635 | 21.522 | 8.693 |
| 2132 | KYMAN | 860902 | 0.019 | 0.161 | 0.016 |
| | | | 0.483 | 4.008 | 0.668 |
| 2157 | KYMAN | 860909 | 0.010 | 0.070 | 0.007 |
| | | | 0.266 | 1.750 | 0.302 |
| 2165 | KYMAN | 860826 | 0.015 | 0.126 | 0.015 |
| | | | 0.379 | 3.153 | 0.617 |
| 2194 | KYMAN | 860916 | 0.027 | 0.033 | 0.010 |
| | | | 0.701 | 0.830 | 0.412 |
| 2217 | KYMAN | 860930 | 0.040 | 0.336 | 0.049 |
| | | | 1.025 | 8.387 | 2.006 |
| 2229 | KYMAN | 861007 | 0.015 | 0.029 | 0.006 |
| | | | 0.382 | 0.732 | 0.260 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 2241 | KYMAN | 860923 | 0.021 | 0.136 | 0.017 |
| | | | 0.535 | 3.384 | 0.695 |
| 2270 | KYMAN | 861021 | 0.009 | 0.025 | 0.003 |
| | | | 0.242 | 0.628 | 0.109 |
| 2310 | KYMAN | 861104 | 0.007 | 0.016 | 0.005 |
| | | | 0.167 | 0.409 | 0.190 |
| 2333 | KYMAN | 861111 | 0.027 | 0.211 | 0.016 |
| | | | 0.680 | 5.266 | 0.653 |
| 2361 | KYMAN | 861118 | 0.035 | 0.082 | 0.009 |
| | | | 0.883 | 2.040 | 0.350 |
| 2387 | KYMAN | 861124 | 0.009 | 0.001 | 0.008 |
| | | | 0.228 | 0.036 | 0.337 |
| 2388 | KYMAN | 861202 | 0.013 | 0.058 | 0.007 |
| | | | 0.335 | 1.445 | 0.290 |
| 2428 | KYMAN | 861209 | 0.065 | 0.052 | 0.006 |
| | | | 1.673 | 1.307 | 0.231 |
| 2457 | KYMAN | 861223 | 0.019 | 0.014 | 0.008 |
| | | | 0.490 | 0.359 | 0.310 |
| 2474 | KYMAN | 861230 | 0.098 | 0.199 | 0.027 |
| | | | 2.508 | 4.972 | 1.115 |

# LOUISIANA


LACHS
LAROS
Baton Rouge
LACAR
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

# LOUISANNA

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD(1) BEGIN | END | #SAMPLES | %NON-VOID(2) |
|---|---|---|---|---|---|---|---|
| LACAR | Carville | Carville | Iberville | | | 34 | 100 |
| LACHS | Chase | Chase | Franklin | | | 31 | 100 |
| LAROS | Rosepine | Rosepine | Vernon | | | 44 | 100 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)
Site: LACAR
Data Plots, JAN '86 - DEC '86

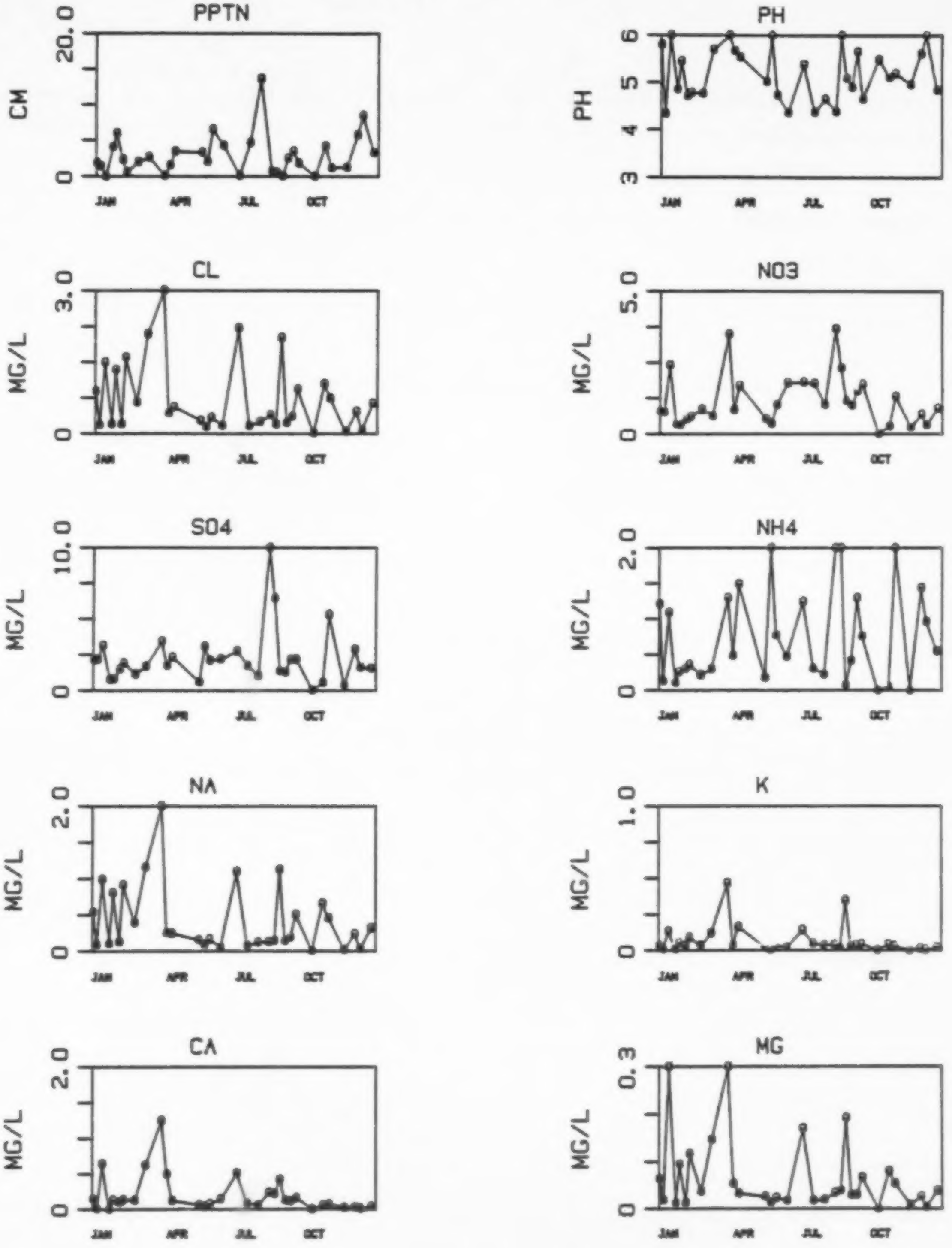


Figure 2-1 (continued)
Site: LACHS
Data Plots, JAN '86 - DEC '86

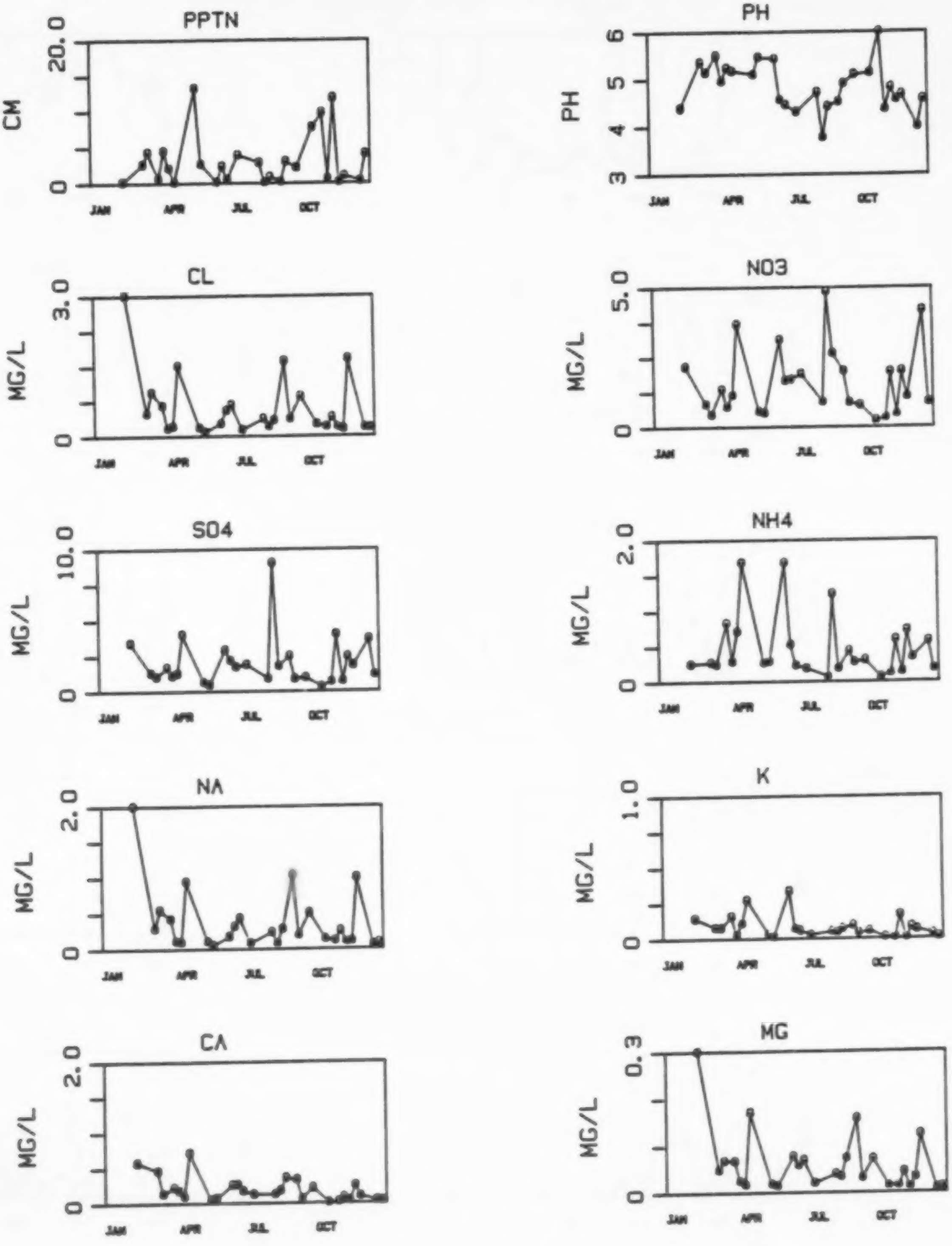
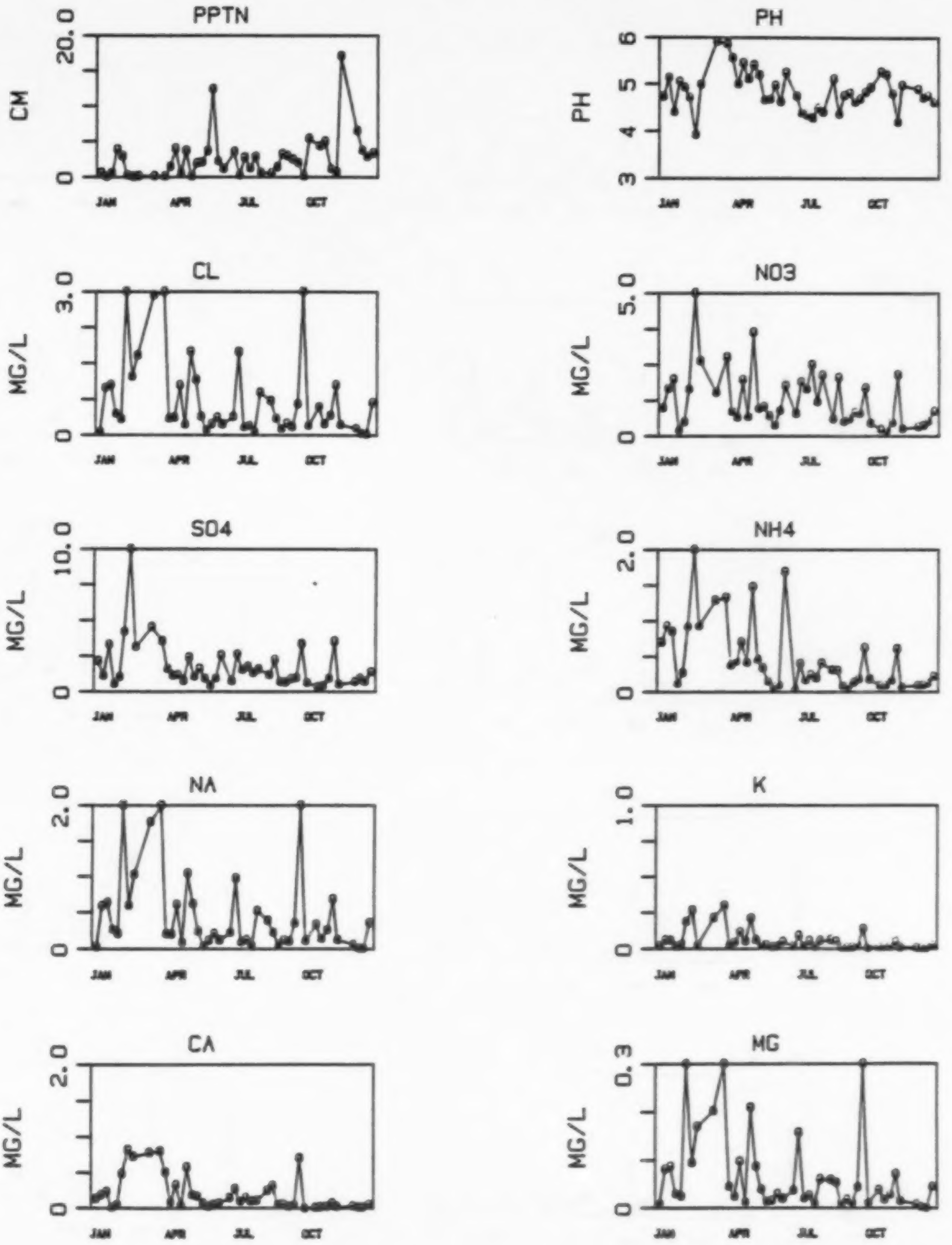


Figure 2-1 (continued)

Site: LAROS

Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1532 | LACAR | 860102 |  | 1340 | 860108 | 1315 | 860115 | 3 | 0.74 | 1231.50 | 14.4 |
| 1548 | LACAR | 860107 |  | 1315 | 860114 | 1440 | 860122 | 2 | 0.55 | 699.00 | 23.5 |
| 1559 | LACAR | 860114 |  | 1440 | 860123 | 1225 | 860128 | 1 | 0.01 | 21.00 |  |
| 1581 | LACAR | 860123 |  | 1230 | 860128 | 1050 | 860204 | 1 | 1.61 | 2851.50 | 8.0 |
| 1600 | LACAR | 860128 |  | 1050 | 860205 | 1400 | 860210 | 1 | 2.35 | 4205.00 | 10.7 |
| 1624 | LACAR | 860205 |  | 1400 | 860210 | 1208 | 860221 | 3 | 0.89 | 1577.00 | 13.1 |
| 1635 | LACAR | 860210 |  | 1215 | 860218 | 1135 | 860224 | 1 | 0.24 | 461.50 | 19.6 |
| 1679 | LACAR | 860225 |  | 1315 | 860304 | 1110 | 860312 | 2 | 0.78 | 1192.00 | 17.2 |
| 1707 | LACAR | 860311 |  | 1530 | 860318 | 1444 | 860327 | 1 | 1.04 | 1765.00 | 16.2 |
| 1760 | LACAR | 860401 |  | 1110 | 860408 | 1130 | 860416 | 1 | 0.04 | 70.00 |  |
| 1769 | LACAR | 860408 |  | 1130 | 860415 | 1135 | 860422 | 1 | 0.61 | 923.00 | 10.3 |
| 1792 | LACAR | 860415 |  | 1135 | 860422 | 1100 | 860501 | 2 | 1.34 | 2220.00 | 23.8 |
| 1862 | LACAR | 860520 |  | 1315 | 860527 | 1100 | 860602 | 3 | 1.29 | 2284.00 | 8.0 |
| 1898 | LACAR | 860527 |  | 1100 | 860603 | 945 | 860612 | 1 | 0.80 | 1401.00 | 19.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1532 | LACAR | 860102 | 5.36 | 3 | 33 | 0.82 | 1.06 | 550.000 | 5.80 |  | 13.3 |
| 1548 | LACAR | 860107 | 4.37 |  |  | 1.07 | 1.03 | 350.000 | 4.33 | 52.25 | 21.3 |
| 1559 | LACAR | 860114 |  |  |  | 1.03 | 1.25 | 20.000 | 6.08 |  | 18.8 |
| 1581 | LACAR | 860123 | 4.63 |  | 33 | 1.07 | 1.11 | 550.000 | 4.85 | 24.40 | 7.0 |
| 1600 | LACAR | 860128 | 5.69 |  | 33 | 0.87 | 1.10 | 550.000 | 5.44 | 11.02 | 8.7 |
| 1624 | LACAR | 860205 | 4.38 |  | 33 | 0.95 | 1.14 | 550.000 | 4.71 | 24.89 | 10.7 |
| 1635 | LACAR | 860210 | 4.42 |  |  | 1.01 | 1.12 | 250.000 | 4.78 | 21.27 | 15.8 |
| 1679 | LACAR | 860225 | 4.72 |  |  | 0.99 | 1.12 | 550.000 | 4.76 | 21.81 | 11.2 |
| 1707 | LACAR | 860311 | 5.83 |  | 33 | 0.91 | 1.07 | 525.000 | 5.69 |  | 14.3 |
| 1760 | LACAR | 860401 |  | 3 |  | 0.87 | 1.06 |  | 6.47 |  | 50.0 |
| 1769 | LACAR | 860408 | 5.51 |  | 33 | 0.89 | 1.05 | 550.000 | 5.67 |  | 9.4 |
| 1792 | LACAR | 860415 | 4.77 |  | 33 | 0.85 | 1.02 | 550.000 | 5.53 |  | 15.1 |
| 1862 | LACAR | 860520 | 5.09 |  | 33 | 0.91 | 1.21 | 550.000 | 5.02 | 14.60 | 5.7 |
| 1898 | LACAR | 860527 | 6.69 |  | 33 | 0.63 | 1.05 | 550.000 | 6.37 |  | 14.7 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1532 | LACAR | 860102 | 0.071 | 0.890 | -0.009 | -0.026 | -0.061 | 0.795 | 2.144 | 1.208 | 0.541 |
|  |  |  | 3.734 | 25.091 | -0.193 | -0.275 | -0.765 | 12.803 | 22.302 | 66.918 | 23.538 |
| 1548 | LACAR | 860107 | 0.007 | 0.185 | -0.005 | 0.022 | -0.035 | 0.772 | 2.166 | 0.132 | 0.088 |
|  |  |  | 0.344 | 5.207 | -0.108 | 0.231 | -0.440 | 12.425 | 22.527 | 7.295 | 3.849 |
| 1559 | LACAR | 860114 | 0.094 | 1.496 | -0.029 | 0.685 | -0.020 | 2.407 | 3.138 | 1.084 | 0.983 |
|  |  |  | 4.939 | 42.182 | -0.639 | 7.196 | -0.250 | 38.755 | 32.634 | 60.080 | 42.776 |
| 1581 | LACAR | 860123 | 0.003 | 0.198 | -0.013 | 0.017 | -0.029 | 0.340 | 0.764 | 0.106 | 0.105 |
|  |  |  | 0.158 | 5.575 | -0.278 | 0.183 | -0.366 | 5.466 | 7.942 | 5.875 | 4.556 |
| 1600 | LACAR | 860128 | 0.005 | 1.341 | -0.013 | -0.008 | -0.017 | 0.324 | 0.805 | 0.258 | 0.808 |
|  |  |  | 0.278 | 37.822 | -0.290 | -0.087 | -0.207 | 5.217 | 8.373 | 14.312 | 35.137 |
| 1624 | LACAR | 860205 | 0.004 | 0.196 | -0.008 | 0.023 | -0.042 | 0.521 | 1.492 | 0.306 | 0.126 |
|  |  |  | 0.218 | 5.517 | -0.175 | 0.243 | -0.529 | 8.394 | 15.520 | 16.940 | 5.474 |
| 1635 | LACAR | 860210 | 0.007 | 1.595 | -0.012 | -0.022 | -0.051 | 0.612 | 1.927 | 0.357 | 0.909 |
|  |  |  | 0.391 | 44.970 | -0.264 | -0.230 | -0.635 | 9.857 | 20.037 | 19.801 | 39.528 |
| 1679 | LACAR | 860225 | 0.006 | 0.651 | -0.014 | -0.055 | -0.058 | 0.848 | 1.130 | 0.210 | 0.393 |
|  |  |  | 0.314 | 18.366 | -0.305 | -0.576 | -0.726 | 13.651 | 11.748 | 11.653 | 17.075 |
| 1707 | LACAR | 860311 | 0.014 | 2.084 | -0.011 | -0.032 | -0.069 | 0.628 | 1.679 | 0.298 | 1.158 |
|  |  |  | 0.761 | 58.767 | -0.244 | -0.339 | -0.863 | 10.112 | 17.460 | 16.499 | 50.375 |
| 1760 | LACAR | 860401 | -0.002 | 8.768 | -0.018 | -0.398 | -0.047 | 3.475 | 3.422 | 1.293 | 5.337 |
|  |  |  | -0.090 | 247.246 | -0.385 | -4.179 | -0.585 | 55.955 | 35.584 | 71.612 | 232.141 |
| 1769 | LACAR | 860408 | 0.012 | 0.432 | -0.038 | -0.030 | -0.036 | 0.840 | 1.732 | 0.486 | 0.250 |
|  |  |  | 0.626 | 12.176 | -0.826 | -0.311 | -0.447 | 13.525 | 18.009 | 26.918 | 10.887 |
| 1792 | LACAR | 860415 | 0.019 | 0.560 | -0.010 | 0.020 | -0.008 | 1.675 | 2.316 | 1.485 | 0.241 |
|  |  |  | 1.003 | 15.790 | -0.213 | 0.207 | -0.106 | 26.962 | 24.087 | 82.276 | 10.481 |
| 1862 | LACAR | 860520 | 0.004 | 0.271 | -0.019 | 0.013 | -0.016 | 0.516 | 0.588 | 0.178 | 0.151 |
|  |  |  | 0.232 | 7.636 | -0.402 | 0.140 | -0.200 | 8.310 | 6.112 | 9.835 | 6.576 |
| 1898 | LACAR | 860527 | 0.103 | 0.137 | 0.053 | -0.022 | -0.013 | 0.353 | 3.065 | 2.158 | 0.085 |
|  |  |  | 5.436 | 3.859 | 1.163 | -0.229 | -0.161 | 5.681 | 31.877 | 119.550 | 3.690 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1532 | LACAR | 860102 | 0.037 | 0.147 | 0.064 |
|  |  |  | 0.946 | 3.656 | 2.621 |
| 1548 | LACAR | 860107 | 0.011 | 0.008 | 0.018 |
|  |  |  | 0.283 | 0.199 | 0.747 |
| 1559 | LACAR | 860114 | 0.133 | 0.643 | 0.355 |
|  |  |  | 3.411 | 16.037 | 14.593 |
| 1581 | LACAR | 860123 | 0.012 | -0.034 | 0.012 |
|  |  |  | 0.295 | -0.851 | 0.506 |
| 1600 | LACAR | 860128 | 0.054 | 0.134 | 0.094 |
|  |  |  | 1.369 | 3.333 | 3.887 |
| 1624 | LACAR | 860205 | 0.034 | 0.098 | 0.013 |
|  |  |  | 0.857 | 2.444 | 0.527 |
| 1635 | LACAR | 860210 | 0.089 | 0.134 | 0.117 |
|  |  |  | 2.268 | 3.354 | 4.796 |
| 1679 | LACAR | 860225 | 0.032 | 0.129 | 0.037 |
|  |  |  | 0.829 | 3.210 | 1.514 |
| 1707 | LACAR | 860311 | 0.122 | 0.621 | 0.147 |
|  |  |  | 3.118 | 15.506 | 6.051 |
| 1760 | LACAR | 860401 | 0.465 | 1.245 | 0.620 |
|  |  |  | 11.906 | 31.065 | 25.511 |
| 1769 | LACAR | 860408 | 0.036 | 0.494 | 0.053 |
|  |  |  | 0.911 | 12.331 | 2.192 |
| 1792 | LACAR | 860415 | 0.163 | 0.121 | 0.032 |
|  |  |  | 4.164 | 3.007 | 1.337 |
| 1862 | LACAR | 860520 | 0.022 | 0.063 | 0.026 |
|  |  |  | 0.566 | 1.564 | 1.062 |
| 1898 | LACAR | 860527 | 0.006 | 0.036 | 0.013 |
|  |  |  | 0.153 | 0.890 | 0.529 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1915 | LACAR | 860603 | | 945 | 860610 | 1240 | 860617 | 4 | 2.56 | 4445.40 | 15.4 |
| 1947 | LACAR | 860617 | | 1000 | 860624 | 1100 | 860702 | 3 | 1.67 | 2432.00 | 24.2 |
| 2002 | LACAR | 860708 | | 1300 | 860715 | 1035 | 860720 | 4 | 0.04 | 137.00 | |
| 2018 | LACAR | 860715 | | 1035 | 860722 | 1020 | 860731 | 2 | 0.32 | 560.40 | 30.2 |
| 2032 | LACAR | 860722 | | 1020 | 860729 | 1030 | 860807 | 2 | 1.83 | 3015.40 | 21.2 |
| 2067 | LACAR | 860805 | | 1205 | 860812 | 1030 | 860819 | 5 | 5.37 | 8705.00 | 12.3 |
| 2166 | LACAR | 860826 | | 1030 | 860902 | 1200 | 860925 | 2 | 0.20 | 200.00 | 34.0 |
| 2185 | LACAR | 860819 | | 1030 | 860826 | 1030 | 860926 | 1 | 0.29 | 514.40 | 53.3 |
| 2197 | LACAR | 860909 | | 1010 | 860916 | 1145 | 861003 | 1 | 0.90 | 1712.00 | 11.0 |
| 2198 | LACAR | 860916 | | 1145 | 860923 | 1005 | 861003 | 5 | 1.35 | 2417.50 | 14.2 |
| 2211 | LACAR | 860923 | | 1005 | 860930 | 1432 | 861014 | 7 | 0.70 | 1299.40 | 21.3 |
| 2261 | LACAR | 860902 | | 1200 | 860909 | 1010 | 861030 | 2 | 0.02 | 66.90 | |
| 2204 | LACAR | 861014 | | 1145 | 861021 | 936 | 861105 | | | 1.00 | |
| 2296 | LACAR | 861028 | | 1030 | 861105 | 1140 | 861112 | 2 | 1.64 | 2609.00 | 9.1 |
| 2311 | LACAR | 861105 | | 1240 | 861110 | 1420 | 861121 | 1 | 0.46 | 591.00 | 25.6 |
| 2345 | LACAR | 861110 | | 1420 | 861118 | 1440 | 861129 | 3 | 2.13 | 3609.00 | 5.6 |
| 2397 | LACAR | 861125 | | 1110 | 861202 | 1120 | 861212 | 4 | 0.49 | 530.00 | 4.4 |

| ID | STN | BD | TYPE | BT | ED | ET | DR | EVENT | INCH | FWT | FCOND |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | YRMODY |  | YRMODY | # EVENTS |  | gm | umho/cm |
| 2429 | LACAR | 861209 |  | 1204 | 861216 | 1137 | 870105 | 5 | 2.25 | 3555.00 | 14.3 |
| 2446 | LACAR | 861216 |  | 1137 | 861223 | 1050 | 870106 | 4 | 3.31 | 5302.00 | 7.3 |
| 2478 | LACAR | 861230 |  | 1150 | 870106 | 1425 | 870114 | 1 | 1.27 | 2196.00 | 15.0 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1915 | LACAR | 860603 | 4.84 |  | 33 | 0.95 | 1.16 | 525.0 | 4.73 | 23.2 | 13.6 |
| 1947 | LACAR | 860617 | 4.41 |  | 21 | 1.01 | 1.01 | 550.0 | 4.36 | 53.2 | 23.5 |
| 2002 | LACAR | 860708 |  | 3 |  | 0.95 | 1.04 | 135.0 | 5.37 | 13.4 | 22.3 |
| 2018 | LACAR | 860715 | 4.32 | 3 | 3334 | 1.01 | 1.04 | 370.0 | 4.36 | 49.0 | 22.3 |
| 2032 | LACAR | 860722 | 4.37 |  |  | 1.02 | 1.06 | 550.0 | 4.37 | 46.7 | 29.6 |
| 2067 | LACAR | 860805 | 4.74 |  | 33 | 0.99 | 1.18 | 550.0 | 4.65 | 26.9 | 10.8 |
| 2166 | LACAR | 860826 | 6.79 | 3 |  | 0.81 | 1.07 | 110.0 | 6.28 |  | 29.9 |
| 2185 | LACAR | 860819 | 4.38 | 3 |  | 0.98 | 1.05 | 200.0 | 4.38 | 49.1 | 52.3 |
| 2197 | LACAR | 860909 | 4.97 |  |  | 1.02 | 1.12 | 550.0 | 4.96 | 18.9 | 9.6 |
| 2198 | LACAR | 860916 | 5.78 |  |  | 0.92 | 1.09 | 550.0 | 5.65 |  | 12.1 |
| 2211 | LACAR | 860923 | 4.73 |  | 33 | 1.01 | 1.10 | 550.0 | 4.65 | 25.1 | 18.6 |
| 2261 | LACAR | 860902 |  |  |  | 1.01 | 1.04 | 60.0 | 5.09 |  | 15.7 |
| 2284 | LACAR | 861014 |  |  |  | 0.34 | 3.35 | 100.0 | 5.48 |  | 0.4 |
| 2296 | LACAR | 861028 | 6.21 | 3 | 33 | 0.92 | 1.07 | 440.0 | 5.11 | 11.4 | 7.9 |
| 2311 | LACAR | 861105 | 5.32 | 3 | 33 | 0.97 | 1.08 | 375.0 | 5.18 | 12.1 | 23.4 |
| 2345 | LACAR | 861110 | 7.04 |  | 36 | 0.87 | 1.34 | 550.0 | 5.68 |  | 3.8 |
| 2397 | LACAR | 861125 | 5.30 |  | 21 | 1.07 | 1.29 | 300.0 | 4.96 | 16.5 | 3.9 |

| ID | STN | DD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2429 | LACAR | 861209 | 6.33 | | | 0.93 | 1.09 | 550.0 | 5.62 | | 13.1 |
| 2446 | LACAR | 861216 | 5.42 | | 33 | 0.86 | 1.27 | 550.0 | 6.03 | | 6.3 |
| 2478 | LACAR | 861230 | 5.56 | 3 | | 1.02 | 1.14 | 525.0 | 4.84 | 18.4 | 11.6 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1915 | LACAR | 860603 | 0.035 | 0.338 | -0.012 | -0.028 | -0.009 | 1.011 | 2.101 | 0.771 | 0.160 |
| | | | 1.840 | 9.537 | -0.258 | -0.289 | -0.117 | 16.282 | 21.850 | 42.702 | 6.947 |
| 1947 | LACAR | 860617 | 0.033 | 0.166 | -0.002 | 0.029 | -0.020 | 1.774 | 2.185 | 0.472 | 0.051 |
| | | | 1.717 | 4.668 | -0.038 | 0.308 | -0.253 | 28.554 | 22.724 | 26.153 | 2.224 |
| 2002 | LACAR | 860708 | 0.097 | 2.214 | -0.002 | 0.034 | -0.013 | 1.804 | 2.744 | 1.235 | 1.093 |
| | | | 5.113 | 62.436 | -0.038 | 0.360 | -0.164 | 29.043 | 28.542 | 68.420 | 47.538 |
| 2018 | LACAR | 860715 | 0.017 | 0.126 | -0.005 | 0.058 | -0.006 | 2.167 | 1.970 | 0.326 | 0.075 |
| | | | 0.895 | 3.540 | -0.109 | 0.607 | -0.077 | 34.892 | 20.487 | 18.077 | 3.256 |
| 2032 | LACAR | 860722 | 0.010 | 0.162 | -0.010 | 0.039 | -0.004 | 1.755 | 1.729 | 0.305 | 0.077 |
| | | | 0.516 | 4.579 | -0.226 | 0.409 | -0.054 | 28.262 | 17.984 | 16.897 | 3.330 |
| 2067 | LACAR | 860805 | 0.008 | 0.252 | -0.008 | -0.052 | -0.016 | 1.021 | 1.014 | 0.223 | 0.120 |
| | | | 0.442 | 7.095 | -0.170 | -0.542 | -0.204 | 16.432 | 10.544 | 12.366 | 5.222 |
| 2166 | LACAR | 860826 | 0.319 | 0.192 | 0.037 | 0.033 | -0.027 | 2.301 | 6.438 | 3.944 | 0.144 |
| | | | 16.792 | 5.416 | 0.805 | 0.343 | -0.334 | 37.038 | 66.950 | 218.491 | 6.263 |
| 2185 | LACAR | 860819 | 0.096 | 0.393 | -0.009 | 0.027 | -0.014 | 3.676 | 10.205 | 4.172 | 0.128 |
| | | | 5.041 | 11.085 | -0.192 | 0.289 | -0.174 | 59.186 | 106.130 | 231.106 | 5.552 |
| 2197 | LACAR | 860909 | 0.043 | 0.227 | -0.016 | 0.030 | -0.015 | 0.991 | 1.276 | 0.414 | 0.140 |
| | | | 2.279 | 6.404 | -0.353 | 0.315 | -0.183 | 15.950 | 13.265 | 22.941 | 6.097 |
| 2198 | LACAR | 860916 | 0.051 | 0.368 | 0.036 | 0.032 | -0.014 | 1.492 | 2.159 | 1.291 | 0.193 |
| | | | 2.692 | 10.384 | 0.773 | 0.335 | -0.179 | 24.023 | 22.452 | 71.515 | 8.390 |
| 2211 | LACAR | 860923 | 0.041 | 0.924 | -0.030 | 0.027 | -0.010 | 1.728 | 2.171 | 0.758 | 0.506 |
| | | | 2.135 | 26.065 | -0.653 | 0.285 | -0.124 | 27.815 | 22.582 | 41.978 | 22.003 |
| 2261 | LACAR | 860902 | 0.050 | 2.008 | 0.000 | 0.019 | 0.027 | 1.152 | 1.352 | 0.072 | 1.121 |
| | | | 2.624 | 56.627 | 0.000 | 0.200 | 0.333 | 18.546 | 14.061 | 3.991 | 48.779 |
| 2284 | LACAR | 861014 | 0.004 | 0.012 | -0.020 | -0.089 | -0.082 | -0.088 | 0.032 | -0.010 | 0.007 |
| | | | 0.215 | 0.346 | -0.428 | -0.937 | -1.024 | -1.416 | 0.335 | -0.549 | 0.309 |
| 2296 | LACAR | 861028 | -0.001 | 1.041 | -0.023 | -0.025 | -0.077 | 0.265 | 0.565 | 0.055 | 0.657 |
| | | | -0.051 | 29.362 | -0.498 | -0.267 | -0.970 | 4.259 | 5.877 | 3.030 | 28.559 |
| 2311 | LACAR | 861105 | 0.103 | 0.737 | -0.016 | -0.025 | -0.040 | 1.295 | 5.278 | 2.288 | 0.458 |
| | | | 5.411 | 20.784 | -0.349 | -0.259 | -0.504 | 20.847 | 54.894 | 126.776 | 19.902 |
| 2345 | LACAR | 861110 | -0.003 | 0.282 | 0.018 | 0.057 | 0.028 | 0.321 | 0.674 | 0.424 | 0.159 |
| | | | -0.149 | 7.947 | 0.389 | 0.595 | 0.348 | 5.168 | 7.006 | 23.496 | 6.900 |
| 2397 | LACAR | 861125 | 0.004 | 0.036 | 0.006 | 0.047 | -0.032 | 0.222 | 0.389 | -0.004 | 0.020 |
| | | | 0.188 | 1.015 | 0.137 | 0.494 | -0.394 | 3.573 | 4.046 | -0.230 | 0.855 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2429 | LACAR | 861209 | 0.107 | 0.465 | -0.009 | -0.031 | -0.054 | 0.670 | 2.861 | 1.433 | 0.235 |
| | | | 5.650 | 13.119 | -0.194 | -0.326 | -0.682 | 10.786 | 29.758 | 79.367 | 10.212 |
| 2446 | LACAR | 861216 | 0.089 | 0.069 | -0.010 | 0.098 | -0.055 | 0.309 | 1.609 | 0.958 | 0.032 |
| | | | 4.701 | 1.940 | -0.220 | 1.026 | -0.689 | 4.977 | 16.734 | 53.061 | 1.391 |
| 2478 | LACAR | 861230 | 0.018 | 0.632 | -0.003 | 0.012 | -0.021 | 0.888 | 1.527 | 0.547 | 0.319 |
| | | | 0.938 | 17.821 | -0.068 | 0.127 | -0.257 | 14.291 | 15.876 | 30.288 | 13.860 |

| ID | STN | DD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1915 | LACAR | 860603 | 0.035<br>0.895 | 0.079<br>1.981 | 0.023<br>0.949 |
| 1947 | LACAR | 860617 | 0.018<br>0.467 | 0.146<br>3.632 | 0.017<br>0.700 |
| 2002 | LACAR | 860708 | 0.141<br>3.605 | 0.508<br>12.679 | 0.170<br>6.998 |
| 2018 | LACAR | 860715 | 0.090<br>2.306 | 0.235<br>5.862 | 0.031<br>1.258 |
| 2032 | LACAR | 860722 | 0.046<br>1.174 | 0.081<br>2.016 | 0.017<br>0.714 |
| 2067 | LACAR | 860805 | 0.035<br>0.906 | 0.063<br>1.563 | 0.019<br>0.784 |
| 2166 | LACAR | 860826 | 0.020<br>0.507 | 0.221<br>5.519 | 0.039<br>1.620 |
| 2185 | LACAR | 860819 | 0.038<br>0.974 | 0.242<br>6.035 | 0.034<br>1.417 |
| 2197 | LACAR | 860909 | 0.034<br>0.863 | 0.129<br>3.213 | 0.029<br>1.194 |
| 2198 | LACAR | 860916 | 0.035<br>0.902 | 0.115<br>2.860 | 0.030<br>1.241 |
| 2211 | LACAR | 860923 | 0.039<br>1.007 | 0.163<br>4.075 | 0.066<br>2.720 |
| 2261 | LACAR | 860902 | 0.345<br>8.812 | 0.418<br>10.440 | 0.192<br>7.896 |
| 2284 | LACAR | 861014 | 0.001<br>0.024 | -0.004<br>-0.111 | -0.002<br>-0.069 |
| 2296 | LACAR | 861028 | 0.039<br>1.005 | 0.054<br>1.356 | 0.080<br>3.273 |
| 2311 | LACAR | 861105 | 0.027<br>0.698 | 0.070<br>1.745 | 0.053<br>2.175 |
| 2345 | LACAR | 861110 | 0.010<br>0.265 | -0.016<br>-0.397 | 0.017<br>0.682 |
| 2397 | LACAR | 861125 | -0.006<br>-0.149 | 0.023<br>0.570 | 0.008<br>0.330 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 2429 | LACAR | 861209 | 0.013<br>0.321 | 0.030<br>0.757 | 0.027<br>1.102 |
| 2446 | LACAR | 861216 | 0.004<br>0.109 | 0.010<br>0.242 | 0.004<br>0.154 |
| 2478 | LACAR | 861230 | 0.020<br>0.515 | 0.039<br>0.969 | 0.039<br>1.598 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1643 | LACHS | 860212 | | 1445 | 860218 | 930 | 860227 | 1 | 0.06 | 118.00 | |
| 1708 | LACHS | 860311 | | 915 | 860318 | 930 | 860327 | 2 | 1.03 | 1798.50 | 8.4 |
| 1736 | LACHS | 860318 | | 930 | 860325 | 915 | 860409 | 1 | 1.68 | 3005.00 | 9.6 |
| 1761 | LACHS | 860401 | | 930 | 860408 | 930 | 860416 | 1 | 0.28 | 514.80 | |
| 1793 | LACHS | 860415 | | 930 | 860422 | 845 | 860501 | 2 | 0.82 | 1351.00 | 14.6 |
| 1809 | LACHS | 860422 | | 845 | 860429 | 930 | 860507 | 2 | 0.05 | 71.50 | |
| 1845 | LACHS | 860408 | | 930 | 860415 | 930 | 860525 | 3 | 1.75 | 3001.80 | 9.0 |
| 1878 | LACHS | 860520 | | 1015 | 860527 | 1000 | 860606 | 4 | 5.20 | 8719.50 | 8.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1643 | LACHS | 860212 |  | 3 |  | 1.01 | 1.08 | 115.000 | 4.39 | 44.63 | 40.1 |
| 1708 | LACHS | 860311 | 5.27 | 3 | 33 | 0.90 | 1.12 | 550.000 | 5.36 | 13.11 | 8.2 |
| 1736 | LACHS | 860318 | 4.97 | 3 |  | 0.94 | 1.12 | 550.000 | 5.14 | 16.75 | 8.7 |
| 1761 | LACHS | 860401 |  |  | 33 | 0.87 | 1.06 | 350.000 | 5.50 | 20.26 | 11.9 |
| 1793 | LACHS | 860415 | 4.63 |  | 33 | 0.89 | 1.08 | 550.000 | 5.24 | 14.06 | 8.9 |
| 1809 | LACHS | 860422 |  |  |  | 0.94 | 1.03 | 70.000 | 5.17 | 13.37 | 28.1 |
| 1845 | LACHS | 860408 | 4.84 |  |  | 0.96 | 1.17 | 550.000 | 4.96 | 16.10 | 7.7 |
| 1878 | LACHS | 860520 | 4.81 | 3 | 33 | 0.85 | 1.20 | 520.000 | 5.10 | 19.20 | 5.4 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1643 | LACHS | 860212 | 0.023 | 4.729 | -0.021 | -0.039 | -0.062 | 2.169 | 3.423 | 0.253 | 2.815 |
| | | | 1.233 | 133.350 | -0.449 | -0.405 | -0.772 | 34.917 | 35.600 | 13.991 | 122.467 |
| 1708 | LACHS | 860311 | 0.009 | 0.482 | -0.011 | 0.040 | -0.069 | 0.813 | 1.289 | 0.272 | 0.293 |
| | | | 0.452 | 13.601 | -0.247 | 0.415 | -0.862 | 13.082 | 13.408 | 15.077 | 12.725 |
| 1736 | LACHS | 860318 | 0.005 | 0.938 | -0.013 | -0.022 | -0.045 | 0.446 | 1.028 | 0.241 | 0.545 |
| | | | 0.283 | 26.456 | -0.279 | -0.232 | -0.560 | 7.173 | 10.692 | 13.377 | 23.721 |
| 1761 | LACHS | 860401 | 0.008 | 0.654 | -0.018 | 0.041 | -0.047 | 1.362 | 1.692 | 0.835 | 0.424 |
| | | | 0.422 | 18.449 | -0.390 | 0.428 | -0.585 | 21.921 | 17.594 | 46.262 | 18.454 |
| 1793 | LACHS | 860415 | 0.009 | 0.214 | -0.010 | 0.018 | 0.030 | 1.155 | 1.279 | 0.716 | 0.098 |
| | | | 0.464 | 6.038 | -0.226 | 0.186 | 0.371 | 18.599 | 13.304 | 39.639 | 4.261 |
| 1809 | LACHS | 860422 | 0.024 | 1.507 | -0.017 | -0.013 | 0.033 | 3.676 | 4.011 | 1.685 | 0.942 |
| | | | 1.276 | 42.490 | -0.361 | -0.139 | 0.414 | 59.188 | 41.719 | 93.339 | 40.966 |
| 1845 | LACHS | 860408 | 0.006 | 0.169 | 0.010 | 0.043 | -0.019 | 0.728 | 1.100 | 0.288 | 0.110 |
| | | | 0.305 | 4.754 | 0.211 | 0.447 | -0.242 | 11.719 | 11.445 | 15.963 | 4.788 |
| 1878 | LACHS | 860520 | 0.005 | 0.178 | -0.016 | -0.011 | -0.008 | 0.556 | 0.637 | 0.269 | 0.103 |
| | | | 0.261 | 5.023 | -0.343 | -0.119 | -0.096 | 8.958 | 6.625 | 14.893 | 4.499 |

| ID | STN | DD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1643 | LACHS | 860212 | 0.143 | 0.573 | 0.350 |
| | | | 3.654 | 14.285 | 14.729 |
| 1708 | LACHS | 860311 | 0.078 | 0.458 | 0.049 |
| | | | 2.005 | 11.428 | 2.024 |
| 1736 | LACHS | 860318 | 0.077 | 0.138 | 0.069 |
| | | | 1.959 | 3.437 | 2.820 |
| 1761 | LACHS | 860401 | 0.157 | 0.228 | 0.068 |
| | | | 4.022 | 5.696 | 2.794 |
| 1793 | LACHS | 860415 | 0.110 | 0.100 | 0.018 |
| | | | 2.818 | 2.497 | 0.724 |
| 1809 | LACHS | 860422 | 0.272 | 0.715 | 0.171 |
| | | | 6.956 | 17.847 | 7.043 |
| 1845 | LACHS | 860408 | 0.029 | 0.174 | 0.025 |
| | | | 0.749 | 4.337 | 1.044 |
| 1878 | LACHS | 860520 | 0.033 | 0.052 | 0.018 |
| | | | 0.837 | 1.307 | 0.746 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1916 | LACHS | 860527 | | 1000 | 860603 | 1030 | 860617 | 2 | 1.04 | 1821.00 | 4.0 |
| 1942 | LACHS | 860617 | | 740 | 860624 | 740 | 860701 | 2 | 0.06 | 95.00 | |
| 1961 | LACHS | 860624 | | 740 | 860701 | 730 | 860709 | 5 | 0.93 | 1653.50 | 20.0 |
| 1973 | LACHS | 860701 | | 730 | 860708 | 815 | 860715 | 2 | 0.21 | 361.00 | 21.1 |
| 1986 | LACHS | 860708 | | 815 | 860715 | 725 | 860722 | 1 | 0.06 | 95.00 | |
| 2003 | LACHS | 860715 | | 725 | 860722 | 900 | 860728 | 4 | 1.54 | 2628.50 | 24.5 |
| 2068 | LACHS | 860805 | | 630 | 860812 | 815 | 860819 | 2 | 1.30 | 2301.50 | 5.8 |
| 2086 | LACHS | 860812 | | 815 | 860819 | 620 | 860827 | 3 | 1.11 | 1987.50 | |
| 2113 | LACHS | 860819 | | 620 | 860826 | 645 | 860904 | 1 | 0.05 | 102.00 | |
| 2133 | LACHS | 860902 | | 735 | 860909 | 705 | 860916 | 5 | 0.67 | 1188.00 | 21.3 |
| 2153 | LACHS | 860909 | | 705 | 860916 | 715 | 860922 | 1 | 0.08 | 131.50 | |
| 2167 | LACHS | 860826 | | 645 | 860902 | 735 | 860925 | 3 | 0.34 | 570.50 | 21.8 |
| 2199 | LACHS | 860916 | | 715 | 860923 | 729 | 861003 | 2 | 1.17 | 2055.00 | 8.9 |
| 2223 | LACHS | 860930 | | 810 | 861007 | 825 | 861017 | 4 | 0.85 | 1501.50 | 8.5 |
| 2237 | LACHS | 861007 | | 830 | 861014 | 825 | 861023 | 4 | 2.29 | 3916.00 | 6.5 |
| 2276 | LACHS | 861021 | | 835 | 861028 | 930 | 861103 | 2 | 3.04 | 5154.00 | 5.0 |
| 2312 | LACHS | 861103 | | 1430 | 861110 | 1015 | 861121 | 5 | 3.83 | 6607.50 | 6.2 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2334 | LACHS | 861110 | | 1018 | 861118 | 930 | 861125 | 2 | 0.24 | 415.00 | 32.0 |
| 2368 | LACHS | 861118 | | 930 | 861125 | 1020 | 861204 | 6 | 4.66 | 7910.00 | 8.1 |
| 2389 | LACHS | 861125 | | 1020 | 861202 | 945 | 861211 | | | 70.00 | |
| 2430 | LACHS | 861202 | | 945 | 861209 | 1040 | 870105 | 3 | 0.38 | 712.00 | |
| 2447 | LACHS | 861223 | | 1000 | 861230 | 820 | 870106 | 1 | 0.10 | 205.00 | |
| 2485 | LACHS | 861230 | | 820 | 870106 | 1015 | 870114 | 2 | 1.50 | 2703.00 | 13.3 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1916 | LACHS | 860527 | 5.55 | | | 0.75 | 1.11 | 550.0 | 5.46 | 12.1 | 3.9 |
| 1942 | LACHS | 860617 | | | | 0.98 | 1.04 | 50.0 | 5.43 | | 19.2 |
| 1961 | LACHS | 860624 | 4.47 | | 33 | 0.99 | 1.10 | 525.0 | 4.56 | 31.5 | 18.5 |
| 1973 | LACHS | 860701 | 4.42 | 3 | | 1.02 | 1.05 | 240.0 | 4.45 | 42.0 | 20.4 |
| 1986 | LACHS | 860708 | | 3 | 34 | 0.81 | 1.08 | 95.0 | 6.00 | | 15.8 |
| 2003 | LACHS | 860715 | 4.09 | 3 | | 1.04 | 1.02 | 550.0 | 4.30 | 57.9 | 24.0 |
| 2068 | LACHS | 860805 | 4.88 | | 34 | 0.93 | 1.21 | 550.0 | 4.94 | 15.8 | 5.3 |
| 2086 | LACHS | 860812 | | | | 1.03 | 1.14 | 550.0 | 4.71 | 24.3 | 10.2 |
| 2113 | LACHS | 860819 | | | | 1.09 | 1.04 | | 3.77 | 186.4 | 82.3 |
| 2133 | LACHS | 860902 | 4.41 | 3 | 34 | 1.01 | 1.12 | 550.0 | 4.45 | 41.5 | 20.2 |
| 2153 | LACHS | 860909 | | 3 | | 1.01 | 1.08 | 130.0 | 4.52 | 36.0 | 24.3 |
| 2167 | LACHS | 860826 | 4.35 | 3 | | 1.06 | 1.09 | 350.0 | 4.42 | 43.4 | 21.0 |
| 2199 | LACHS | 860916 | 4.78 | 3 | | 1.02 | 1.18 | 550.0 | 4.90 | 16.3 | 8.1 |
| 2223 | LACHS | 860930 | 5.06 | 3 | | 0.88 | 1.13 | 550.0 | 5.09 | 12.1 | 9.3 |
| 2237 | LACHS | 861007 | 4.83 | | 34 | 1.04 | 1.23 | 500.0 | 5.04 | 13.6 | 5.6 |
| 2276 | LACHS | 861021 | 4.88 | | | 1.07 | 1.46 | 540.0 | 5.13 | 10.8 | 3.2 |
| 2312 | LACHS | 861103 | 4.86 | | | 1.91 | 0.51 | 550.0 | 7.25 | | 5.9 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2334 | LACHS | 861110 | 4.23 | 13 | | 1.29 | 0.94 | 275.0 | 4.36 | 53.3 | 29.0 |
| 2368 | LACHS | 861118 | 4.78 | | | 0.93 | 1.36 | 525.0 | 4.82 | 18.8 | 6.2 |
| 2389 | LACHS | 861125 | | 3 | | 1.01 | 1.09 | 75.0 | 4.56 | 34.2 | 18.7 |
| 2430 | LACHS | 861202 | | 3 | | 1.02 | 1.05 | 550.0 | 4.67 | 29.7 | 18.8 |
| 2447 | LACHS | 861223 | | 3 | | 1.03 | 1.01 | 180.0 | 3.99 | 114.3 | 48.8 |
| 2485 | LACHS | 861230 | 4.40 | | | 1.04 | 1.17 | 525.0 | 4.57 | 31.4 | 11.7 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1916 | LACHS | 860527 | 0.006 | 0.086 | 0.020 | -0.027 | -0.009 | 0.496 | 0.441 | 0.289 | 0.053 |
| | | | 0.311 | 2.426 | 0.446 | -0.281 | -0.114 | 7.980 | 4.586 | 15.996 | 2.302 |
| 1942 | LACHS | 860617 | 0.036 | 0.266 | 0.000 | 0.306 | 0.000 | 3.125 | 2.922 | 1.680 | 0.176 |
| | | | 1.884 | 7.491 | 0.000 | 3.210 | 0.000 | 50.320 | 30.390 | 93.071 | 7.642 |
| 1961 | LACHS | 860624 | -0.010 | 0.543 | -0.007 | 0.050 | -0.004 | 1.657 | 2.169 | 0.525 | 0.318 |
| | | | -0.536 | 15.326 | -0.152 | 0.527 | -0.049 | 26.670 | 22.555 | 29.094 | 13.819 |
| 1973 | LACHS | 860701 | 0.016 | 0.665 | -0.006 | 0.029 | -0.014 | 1.700 | 1.725 | 0.229 | 0.431 |
| | | | 0.860 | 18.765 | -0.129 | 0.304 | -0.179 | 27.367 | 17.941 | 12.700 | 18.767 |
| 1986 | LACHS | 860708 | 0.013 | 1.254 | -0.001 | 0.227 | -0.009 | 1.748 | 1.685 | 1.123 | 0.683 |
| | | | 0.686 | 35.367 | -0.030 | 2.386 | -0.113 | 28.137 | 17.525 | 62.232 | 29.692 |
| 2003 | LACHS | 860715 | -0.004 | 0.133 | -0.002 | 0.045 | -0.013 | 1.900 | 1.894 | 0.184 | 0.083 |
| | | | -0.207 | 3.750 | -0.036 | 0.476 | -0.160 | 30.594 | 19.692 | 10.173 | 3.606 |
| 2068 | LACHS | 860805 | 0.011 | 0.149 | -0.008 | -0.051 | -0.017 | 0.593 | 0.394 | 0.081 | 0.094 |
| | | | 0.581 | 4.208 | -0.166 | -0.531 | -0.209 | 9.547 | 4.094 | 4.475 | 4.110 |
| 2086 | LACHS | 860812 | 0.013 | 0.366 | -0.004 | 0.054 | -0.021 | 0.895 | 0.894 | 0.070 | 0.236 |
| | | | 0.694 | 10.321 | -0.086 | 0.572 | -0.263 | 14.405 | 9.301 | 3.851 | 10.268 |
| 2113 | LACHS | 860819 | 0.072 | 0.206 | -0.016 | -0.109 | -0.083 | 4.846 | 9.022 | 1.236 | 0.083 |
| | | | 3.810 | 5.818 | -0.351 | -1.143 | -1.037 | 78.026 | 93.826 | 68.492 | 3.601 |
| 2133 | LACHS | 860902 | 0.021 | 0.755 | -0.022 | 0.046 | -0.004 | 1.867 | 1.830 | 0.287 | 0.448 |
| | | | 1.107 | 21.291 | -0.483 | 0.484 | -0.048 | 30.065 | 19.027 | 15.911 | 19.469 |
| 2153 | LACHS | 860909 | 0.024 | 1.605 | -0.008 | 0.022 | -0.029 | 1.996 | 2.497 | 0.430 | 1.032 |
| | | | 1.285 | 45.252 | -0.173 | 0.231 | -0.360 | 32.136 | 25.965 | 23.805 | 44.906 |
| 2167 | LACHS | 860826 | 0.019 | 0.339 | -0.010 | 0.032 | -0.027 | 2.631 | 1.783 | 0.186 | 0.283 |
| | | | 1.012 | 9.565 | -0.217 | 0.331 | -0.333 | 42.366 | 18.545 | 10.317 | 12.300 |
| 2199 | LACHS | 860916 | 0.011 | 0.366 | -0.018 | 0.032 | -0.014 | 0.869 | 0.868 | 0.274 | 0.197 |
| | | | 0.586 | 10.322 | -0.391 | 0.336 | -0.175 | 13.994 | 9.032 | 15.185 | 8.563 |
| 2223 | LACHS | 860930 | 0.010 | 0.844 | 0.000 | 0.020 | 0.000 | 0.766 | 0.944 | 0.301 | 0.505 |
| | | | 0.514 | 23.808 | 0.000 | 0.215 | 0.000 | 12.332 | 9.819 | 16.701 | 21.972 |
| 2237 | LACHS | 861007 | 0.005 | 0.116 | 0.000 | 0.071 | 0.000 | 0.596 | 0.729 | 0.261 | 0.054 |
| | | | 0.270 | 3.284 | 0.000 | 0.749 | 0.000 | 9.594 | 7.583 | 14.443 | 2.348 |
| 2276 | LACHS | 861021 | -0.009 | 0.246 | -0.009 | 0.081 | -0.044 | 0.226 | 0.315 | 0.062 | 0.138 |
| | | | -0.469 | 6.935 | -0.201 | 0.847 | -0.556 | 3.641 | 3.279 | 3.431 | 6.002 |
| 2312 | LACHS | 861103 | 0.005 | 0.199 | -0.016 | 0.062 | -0.038 | 0.338 | 0.675 | 0.124 | 0.114 |
| | | | 0.251 | 5.612 | -0.341 | 0.654 | -0.479 | 5.437 | 7.017 | 6.853 | 4.977 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2334 | LACHS | 861110 | 0.058 | 0.390 | -0.003 | 0.041 | -0.021 | 1.967 | 3.994 | 0.589 | 0.251 |
|  |  |  | 3.063 | 11.007 | -0.063 | 0.432 | -0.262 | 31.669 | 41.535 | 32.636 | 10.927 |
| 2368 | LACHS | 861118 | -0.001 | 0.189 | -0.010 | 0.017 | -0.009 | 0.463 | 0.716 | 0.140 | 0.104 |
|  |  |  | -0.042 | 5.338 | -0.225 | 0.175 | -0.108 | 7.457 | 7.449 | 7.748 | 4.513 |
| 2389 | LACHS | 861125 | 0.018 | 0.141 | 0.012 | 0.054 | -0.031 | 1.996 | 2.434 | 0.723 | 0.110 |
|  |  |  | 0.927 | 3.962 | 0.271 | 0.569 | -0.392 | 32.128 | 25.315 | 40.057 | 4.792 |
| 2430 | LACHS | 861202 | -0.005 | 1.649 | -0.009 | -0.031 | -0.055 | 1.080 | 1.807 | 0.338 | 0.991 |
|  |  |  | -0.251 | 46.489 | -0.197 | -0.328 | -0.688 | 17.386 | 18.793 | 18.748 | 43.108 |
| 2447 | LACHS | 861223 | -0.007 | 0.176 | -0.010 | -0.032 | 0.124 | 4.164 | 3.667 | 0.572 | 0.058 |
|  |  |  | -0.344 | 4.976 | -0.220 | -0.334 | 1.547 | 67.039 | 38.134 | 31.684 | 2.515 |
| 2485 | LACHS | 861230 | -0.003 | 0.168 | -0.005 | 0.013 | 0.121 | 0.884 | 1.140 | 0.177 | 0.081 |
|  |  |  | -0.151 | 4.752 | -0.111 | 0.140 | 1.518 | 14.231 | 11.857 | 9.808 | 3.527 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1916 | LACHS | 860527 | 0.015 | 0.075 | 0.014 |
| | | | 0.376 | 1.883 | 0.591 |
| 1942 | LACHS | 860617 | 0.334 | 0.259 | 0.077 |
| | | | 8.548 | 6.464 | 3.175 |
| 1961 | LACHS | 860624 | 0.072 | 0.261 | 0.059 |
| | | | 1.833 | 6.503 | 2.420 |
| 1973 | LACHS | 860701 | 0.054 | 0.173 | 0.070 |
| | | | 1.391 | 4.314 | 2.861 |
| 1986 | LACHS | 860708 | 0.849 | 0.163 | 0.106 |
| | | | 21.722 | 4.058 | 4.367 |
| 2003 | LACHS | 860715 | 0.026 | 0.124 | 0.020 |
| | | | 0.675 | 3.104 | 0.841 |
| 2068 | LACHS | 860805 | 0.054 | 0.033 | 0.015 |
| | | | 1.378 | 0.821 | 0.634 |
| 2086 | LACHS | 860812 | 0.051 | 0.129 | 0.040 |
| | | | 1.306 | 3.213 | 1.630 |
| 2113 | LACHS | 860819 | 0.044 | 0.185 | 0.034 |
| | | | 1.133 | 4.604 | 1.407 |
| 2133 | LACHS | 860902 | 0.065 | 0.247 | 0.075 |
| | | | 1.675 | 6.171 | 3.083 |
| 2153 | LACHS | 860909 | 0.094 | 0.329 | 0.158 |
| | | | 2.403 | 8.203 | 6.492 |
| 2167 | LACHS | 860826 | 0.072 | 0.360 | 0.074 |
| | | | 1.854 | 8.982 | 3.062 |
| 2199 | LACHS | 860916 | 0.040 | 0.067 | 0.032 |
| | | | 1.019 | 1.677 | 1.303 |
| 2223 | LACHS | 860930 | 0.054 | 0.213 | 0.072 |
| | | | 1.373 | 5.307 | 2.962 |
| 2237 | LACHS | 861007 | 0.053 | 0.014 | 0.020 |
| | | | 1.346 | 0.344 | 0.806 |
| 2276 | LACHS | 861021 | 0.009 | 0.006 | 0.014 |
| | | | 0.238 | 0.152 | 0.572 |
| 2312 | LACHS | 861103 | 0.007 | 0.019 | 0.015 |
| | | | 0.185 | 0.478 | 0.618 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2334 | LACHS | 861110 | 0.163 | 0.086 | 0.044 |
| | | | 4.178 | 2.153 | 1.799 |
| 2368 | LACHS | 861118 | 0.008 | 0.035 | 0.012 |
| | | | 0.193 | 0.861 | 0.510 |
| 2389 | LACHS | 861125 | 0.082 | 0.245 | 0.033 |
| | | | 2.103 | 6.109 | 1.346 |
| 2430 | LACHS | 861202 | 0.060 | 0.095 | 0.124 |
| | | | 1.545 | 2.368 | 5.086 |
| 2447 | LACHS | 861223 | 0.032 | 0.036 | 0.009 |
| | | | 0.807 | 0.893 | 0.379 |
| 2485 | LACHS | 861230 | 0.010 | 0.030 | 0.012 |
| | | | 0.268 | 0.747 | 0.491 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1549 | LAROS | 860107 | | 1200 | 860114 | 1030 | 860123 | 2 | 0.25 | 457.20 | 13.3 |
| 1582 | LAROS | 860114 | | 1030 | 860121 | 1050 | 860204 | 1 | 0.02 | 38.90 | |
| 1583 | LAROS | 860121 | | 1050 | 860128 | 1115 | 860204 | 2 | 0.23 | 397.80 | 24.3 |
| 1608 | LAROS | 860128 | | 1115 | 860204 | 1340 | 860214 | 1 | 1.52 | 2461.00 | 6.5 |
| 1617 | LAROS | 860204 | | 1340 | 860210 | 1305 | 860219 | 2 | 1.14 | 1977.00 | 8.2 |
| 1655 | LAROS | 860210 | | 1305 | 860218 | 1425 | 860304 | 3 | 0.10 | 173.50 | 4.2 |
| 1668 | LAROS | 860218 | | 1325 | 860225 | 1115 | 860311 | 1 | 0.02 | 32.80 | |
| 1669 | LAROS | 860225 | | 1115 | 860304 | 1100 | 860311 | 1 | 0.05 | 93.00 | |
| 1722 | LAROS | 860318 | | 1120 | 860325 | 1130 | 860402 | 1 | 0.04 | 71.40 | |
| 1751 | LAROS | 860401 | | 1030 | 860408 | 1030 | 860415 | 1 | 0.04 | 65.10 | |
| 1794 | LAROS | 860408 | | 1030 | 860415 | 1245 | 860501 | 4 | 0.57 | 982.80 | 8.9 |
| 1795 | LAROS | 860415 | | 1245 | 860422 | 1145 | 860501 | 1 | 1.57 | 2758.50 | 11.4 |
| 1821 | LAROS | 860422 | | 1145 | 860429 | 1030 | 860508 | 1 | 0.21 | 365.20 | 21.3 |
| 1831 | LAROS | 860429 | | 1030 | 860506 | 1330 | 860515 | 2 | 1.44 | 2489.10 | 8.7 |
| 1863 | LAROS | 860506 | | 1330 | 860513 | 935 | 860602 | 2 | 0.04 | 56.70 | |
| 1864 | LAROS | 860513 | | 935 | 860520 | 1050 | 860602 | 2 | 0.77 | 1335.20 | 12.7 |
| 1889 | LAROS | 860527 | | 1000 | 860603 | 1345 | 860610 | 3 | 1.44 | 2595.10 | 12.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1549 | LAROS | 860107 | 4.93 | | | 0.98 | 1.11 | 440.000 | 4.73 | 24.97 | 13.3 |
| 1582 | LAROS | 860114 | | | | 0.84 | 1.11 | 35.000 | 5.13 | | 13.5 |
| 1583 | LAROS | 860121 | 4.32 | 3 | | 0.97 | 1.07 | 375.000 | 4.40 | 46.87 | 27.9 |
| 1608 | LAROS | 860128 | 4.99 | | | 0.90 | 1.27 | 550.000 | 5.05 | 17.54 | 5.0 |
| 1617 | LAROS | 860204 | 4.72 | | | 0.95 | 1.10 | 550.000 | 4.92 | 18.49 | 8.2 |
| 1655 | LAROS | 860210 | 4.60 | 3 | | 1.00 | 1.06 | 95.000 | 4.71 | 25.27 | 43.3 |
| 1668 | LAROS | 860218 | | | | 1.02 | 1.02 | 30.000 | 3.92 | | 89.8 |
| 1669 | LAROS | 860225 | | | | 0.99 | 0.84 | 50.000 | 4.99 | | 29.2 |
| 1722 | LAROS | 860318 | | | | 0.96 | 1.04 | 70.000 | 5.92 | | 27.7 |
| 1751 | LAROS | 860401 | | 3 | | 0.90 | 1.10 | 65.000 | 5.86 | | 36.9 |
| 1794 | LAROS | 860408 | 5.54 | | | 0.93 | 1.09 | 550.000 | 5.55 | | 8.4 |
| 1795 | LAROS | 860415 | 4.78 | | | 0.90 | 1.15 | 550.000 | 5.00 | 17.50 | 8.4 |
| 1821 | LAROS | 860422 | 4.61 | | | 0.91 | 1.07 | 330.000 | 5.44 | 15.29 | 12.8 |
| 1831 | LAROS | 860429 | 4.98 | | | 0.88 | 1.21 | 550.000 | 5.11 | 12.39 | 6.1 |
| 1863 | LAROS | 860506 | | 3 | | 0.90 | 1.06 | 50.000 | 5.40 | | 23.6 |
| 1864 | LAROS | 860513 | 5.19 | 3 | | 0.93 | 1.10 | 550.000 | 5.19 | 11.80 | 10.9 |
| 1889 | LAROS | 860527 | 4.75 | | | 0.94 | 1.17 | 550.000 | 4.68 | 25.90 | 9.2 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1549 | LAROS | 860107 | 0.013 | 0.059 | 0.043 | 0.031 | -0.035 | 0.995 | 2.141 | 0.704 | 0.025 |
| | | | 0.699 | 1.657 | 0.937 | 0.320 | -0.441 | 16.019 | 22.262 | 38.980 | 1.100 |
| 1582 | LAROS | 860114 | 0.112 | 0.992 | -0.013 | -0.009 | 0.193 | 1.670 | 1.107 | 0.932 | 0.589 |
| | | | 5.884 | 27.980 | -0.273 | -0.100 | 2.411 | 26.882 | 11.516 | 51.616 | 25.614 |
| 1583 | LAROS | 860121 | 0.020 | 1.052 | -0.012 | -0.010 | -0.031 | 1.996 | 3.289 | 0.851 | 0.639 |
| | | | 1.065 | 29.665 | -0.268 | -0.100 | -0.394 | 32.134 | 34.201 | 47.120 | 27.813 |
| 1608 | LAROS | 860128 | -0.001 | 0.446 | -0.007 | -0.015 | -0.053 | 0.202 | 0.542 | 0.122 | 0.262 |
| | | | -0.050 | 12.584 | -0.155 | -0.155 | -0.664 | 3.255 | 5.637 | 6.738 | 11.399 |
| 1617 | LAROS | 860204 | -0.001 | 0.332 | -0.008 | -0.018 | -0.047 | 0.502 | 1.037 | 0.273 | 0.203 |
| | | | -0.058 | 9.363 | -0.166 | -0.187 | -0.588 | 8.083 | 10.785 | 15.124 | 8.851 |
| 1655 | LAROS | 860210 | 0.072 | 6.607 | -0.012 | -0.050 | 0.059 | 1.651 | 4.211 | 0.922 | 3.843 |
| | | | 3.784 | 186.313 | -0.270 | -0.521 | 0.739 | 26.578 | 43.798 | 51.077 | 167.166 |
| 1668 | LAROS | 860218 | 0.113 | 1.219 | -0.014 | -0.056 | 0.164 | 5.527 | 13.172 | 3.598 | 0.593 |
| | | | 5.940 | 34.380 | -0.304 | -0.592 | 2.057 | 88.981 | 136.990 | 199.322 | 25.780 |
| 1669 | LAROS | 860225 | 0.024 | 1.665 | -0.014 | -0.057 | 0.059 | 2.631 | 3.129 | 0.936 | 1.024 |
| | | | 1.283 | 46.941 | -0.306 | -0.597 | 0.737 | 42.363 | 32.545 | 51.841 | 44.552 |
| 1722 | LAROS | 860318 | 0.031 | 2.925 | -0.013 | -0.035 | -0.067 | 1.527 | 4.521 | 1.290 | 1.768 |
| | | | 1.625 | 82.478 | -0.288 | -0.362 | -0.842 | 24.587 | 47.020 | 71.479 | 76.904 |
| 1751 | LAROS | 860401 | 0.085 | 5.779 | -0.015 | -0.030 | -0.047 | 2.761 | 3.539 | 1.329 | 3.625 |
| | | | 4.487 | 162.960 | -0.329 | -0.317 | -0.585 | 44.457 | 36.810 | 73.624 | 157.675 |
| 1794 | LAROS | 860408 | 0.014 | 0.349 | -0.011 | 0.011 | -0.008 | 0.865 | 1.588 | 0.380 | 0.204 |
| | | | 0.755 | 9.842 | -0.233 | 0.114 | -0.102 | 13.919 | 16.519 | 21.066 | 8.878 |
| 1795 | LAROS | 860415 | 0.008 | 0.368 | -0.011 | 0.012 | -0.008 | 0.662 | 1.122 | 0.443 | 0.199 |
| | | | 0.434 | 10.380 | -0.239 | 0.127 | -0.101 | 10.666 | 11.671 | 24.521 | 8.640 |
| 1821 | LAROS | 860422 | 0.028 | 1.047 | -0.017 | 0.013 | -0.007 | 1.975 | 1.177 | 0.707 | 0.610 |
| | | | 1.485 | 29.514 | -0.366 | 0.133 | -0.091 | 31.792 | 12.246 | 39.194 | 26.535 |
| 1831 | LAROS | 860429 | 0.005 | 0.222 | -0.006 | 0.033 | -0.010 | 0.687 | 0.750 | 0.421 | 0.086 |
| | | | 0.274 | 6.264 | -0.129 | 0.345 | -0.126 | 11.055 | 7.799 | 23.309 | 3.753 |
| 1863 | LAROS | 860506 | 0.118 | 1.746 | -0.018 | -0.008 | -0.016 | 3.636 | 2.410 | 1.476 | 1.040 |
| | | | 6.196 | 49.239 | -0.399 | -0.080 | -0.194 | 58.544 | 25.067 | 81.765 | 45.260 |
| 1864 | LAROS | 860513 | 0.014 | 1.158 | -0.018 | -0.008 | -0.015 | 0.960 | 1.075 | 0.461 | 0.617 |
| | | | 0.725 | 32.643 | -0.396 | -0.083 | -0.189 | 15.452 | 11.178 | 25.541 | 26.849 |
| 1889 | LAROS | 860527 | 0.012 | 0.105 | -0.005 | -0.016 | -0.013 | 0.703 | 0.901 | 0.150 | 0.037 |
| | | | 0.657 | 2.964 | -0.099 | -0.168 | -0.169 | 11.318 | 9.370 | 8.326 | 1.603 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1549 | LAROS | 860107 | 0.021<br>0.529 | 0.132<br>3.287 | 0.009<br>0.356 |
| 1582 | LAROS | 860114 | 0.061<br>1.555 | 0.188<br>4.694 | 0.081<br>3.351 |
| 1583 | LAROS | 860121 | 0.058<br>1.480 | 0.235<br>5.860 | 0.088<br>3.600 |
| 1608 | LAROS | 860128 | 0.016<br>0.420 | 0.007<br>0.172 | 0.029<br>1.206 |
| 1617 | LAROS | 860204 | 0.034<br>0.882 | 0.048<br>1.190 | 0.025<br>1.011 |
| 1655 | LAROS | 860210 | 0.187<br>4.774 | 0.485<br>12.111 | 0.453<br>18.649 |
| 1668 | LAROS | 860218 | 0.264<br>6.757 | 0.814<br>20.311 | 0.095<br>3.905 |
| 1669 | LAROS | 860225 | 0.025<br>0.640 | 0.724<br>18.059 | 0.170<br>7.005 |
| 1722 | LAROS | 860318 | 0.214<br>5.462 | 0.778<br>19.405 | 0.203<br>8.347 |
| 1751 | LAROS | 860401 | 0.296<br>7.579 | 0.797<br>19.881 | 0.460<br>18.930 |
| 1794 | LAROS | 860408 | 0.028<br>0.724 | 0.504<br>12.586 | 0.045<br>1.856 |
| 1795 | LAROS | 860415 | 0.046<br>1.177 | 0.084<br>2.108 | 0.024<br>0.991 |
| 1821 | LAROS | 860422 | 0.115<br>2.941 | 0.331<br>8.250 | 0.098<br>4.016 |
| 1831 | LAROS | 860429 | 0.052<br>1.321 | 0.037<br>0.931 | 0.012<br>0.510 |
| 1863 | LAROS | 860506 | 0.209<br>5.341 | 0.574<br>14.327 | 0.210<br>8.636 |
| 1864 | LAROS | 860513 | 0.060<br>1.529 | 0.184<br>4.601 | 0.087<br>3.589 |
| 1889 | LAROS | 860527 | 0.025<br>0.642 | 0.068<br>1.684 | 0.013<br>0.539 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1902 | LAROS | 860520 | | 1050 | 860527 | 1600 | 860613 | 2 | 0.82 | 1424.10 | 15.9 |
| 1917 | LAROS | 860603 | | 1345 | 860610 | 935 | 860617 | 7 | 4.88 | 8412.20 | 6.2 |
| 1931 | LAROS | 860610 | | 935 | 860617 | 755 | 860624 | 3 | 0.88 | 1470.10 | 12.6 |
| 1943 | LAROS | 860617 | | 755 | 860624 | 900 | 860701 | 3 | 0.44 | 814.60 | 25.0 |
| 1980 | LAROS | 860701 | | 1000 | 860708 | 845 | 860717 | 3 | 1.38 | 2481.10 | 9.7 |
| 2004 | LAROS | 860708 | | 845 | 860715 | 940 | 860728 | 2 | 0.11 | 192.10 | 32.3 |
| 2014 | LAROS | 860715 | | 940 | 860722 | 940 | 860730 | 2 | 1.07 | 1899.90 | 26.5 |
| 2033 | LAROS | 860722 | | 940 | 860729 | 940 | 860807 | 3 | 0.48 | 845.00 | 26.8 |
| 2069 | LAROS | 860729 | | 940 | 860805 | 935 | 860819 | 1 | 1.10 | 1903.80 | 26.8 |
| 2087 | LAROS | 860805 | | 935 | 860812 | 845 | 860827 | 3 | 0.23 | 447.00 | 22.8 |
| 2104 | LAROS | 860819 | | 1110 | 860826 | 1000 | 860903 | 1 | 0.21 | 357.70 | 9.5 |
| 2124 | LAROS | 860826 | | 1000 | 860902 | 1230 | 860912 | 1 | 0.54 | 934.60 | 26.2 |
| 2139 | LAROS | 860902 | | 1230 | 860909 | 835 | 860917 | 2 | 1.27 | 2258.00 | 7.6 |
| 2200 | LAROS | 860909 | | 835 | 860916 | 920 | 861003 | 2 | 1.16 | 1949.80 | 7.9 |
| 2210 | LAROS | 860916 | | 920 | 860923 | 825 | 861009 | 5 | 0.96 | 1646.60 | 10.7 |
| 2226 | LAROS | 860930 | | 1025 | 861007 | 950 | 861020 | 1 | 0.05 | 85.00 | |
| 2227 | LAROS | 861007 | | 950 | 861014 | 818 | 861020 | 3 | 2.11 | 3709.00 | 7.3 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2262 | LAROS | 860923 |  | 825 | 860930 | 1025 | 861030 | 4 | 0.77 | 1363.30 | 11.8 |
| 2278 | LAROS | 861021 |  | 1120 | 861028 | 1145 | 861104 | 2 | 1.71 | 2905.90 | 4.7 |
| 2297 | LAROS | 861028 |  | 1145 | 861105 | 1330 | 861112 | 2 | 1.96 | 3322.30 | 4.5 |
| 2313 | LAROS | 861105 |  | 1330 | 861112 | 1125 | 861121 | 3 | 0.44 | 776.30 | 8.4 |
| 2346 | LAROS | 861112 |  | 1125 | 861118 | 910 | 861129 | 1 | 0.25 | 494.50 | 35.2 |
| 2352 | LAROS | 861118 |  | 910 | 861125 | 1245 | 861125 | 6 | 6.73 | 11640.60 | 5.5 |
| 2431 | LAROS | 861209 |  | 1135 | 861216 | 915 | 870105 | 6 | 2.56 | 4708.20 | 7.0 |
| 2432 | LAROS | 861216 |  | 915 | 861222 | 1100 | 870105 | 3 | 1.47 | 2634.00 | 8.0 |
| 2486 | LAROS | 861222 |  | 1100 | 861230 | 1050 | 870114 | 2 | 1.13 | 2084.20 | 7.5 |
| 2498 | LAROS | 861230 |  | 1050 | 870106 | 1450 | 870117 | 1 | 1.33 | 2315.20 | 17.6 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1902 | LAROS | 860520 | 4.65 | | | 0.98 | 1.09 | 550.0 | 4.66 | 30.9 | 13.7 |
| 1917 | LAROS | 860603 | 4.95 | | | 0.98 | 1.19 | 550.0 | 4.97 | 13.9 | 5.1 |
| 1931 | LAROS | 860610 | 4.66 | | | 1.04 | 1.07 | 550.0 | 4.62 | 27.6 | 12.0 |
| 1943 | LAROS | 860617 | 4.62 | | | 0.83 | 1.10 | 530.0 | 5.24 | 14.0 | 14.9 |
| 1980 | LAROS | 860701 | 4.68 | | | 0.99 | 1.14 | 550.0 | 4.74 | 23.7 | 9.4 |
| 2004 | LAROS | 860708 | 4.36 | | | 1.03 | 1.00 | 150.0 | 4.38 | 50.9 | 30.2 |
| 2014 | LAROS | 860715 | 4.30 | 3 | | 0.98 | 1.04 | 550.0 | 4.33 | 54.3 | 21.5 |
| 2033 | LAROS | 860722 | 4.32 | | | 1.03 | 1.03 | 520.0 | 4.27 | 61.3 | 26.0 |
| 2069 | LAROS | 860729 | 4.46 | | | 0.99 | 1.08 | 550.0 | 4.49 | 39.0 | 14.9 |
| 2087 | LAROS | 860805 | 4.41 | 3 | | 0.98 | 1.10 | 300.0 | 4.40 | 45.8 | 22.2 |
| 2104 | LAROS | 860819 | 5.42 | 3 | | 0.93 | 1.11 | 200.0 | 5.11 | 13.8 | 9.2 |
| 2124 | LAROS | 860826 | 4.44 | | | 1.00 | 1.13 | 550.0 | 4.36 | 49.1 | 22.2 |
| 2139 | LAROS | 860902 | 4.78 | | | 1.02 | 1.31 | 550.0 | 4.76 | 22.1 | 6.8 |
| 2200 | LAROS | 860909 | 4.83 | | | 1.09 | 1.24 | 550.0 | 4.81 | 20.8 | 6.9 |
| 2210 | LAROS | 860916 | 4.69 | | | 1.01 | 1.16 | 550.0 | 4.62 | 29.5 | 10.5 |
| 2226 | LAROS | 860930 | | 3 | | 1.00 | 1.06 | 70.0 | 4.83 | 20.6 | 32.8 |
| 2227 | LAROS | 861007 | 4.79 | | | 0.97 | 1.30 | 550.0 | 4.93 | 16.3 | 5.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | VT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2262 | LAROS | 860923 | 4.75 | | | 1.01 | 1.22 | 550.0 | 4.69 | 25.6 | 10.6 |
| 2278 | LAROS | 861021 | 5.23 | | | 1.06 | 1.31 | 550.0 | 5.26 | 13.3 | 4.2 |
| 2297 | LAROS | 861028 | 4.90 | | | 0.97 | 1.29 | 550.0 | 5.20 | 12.6 | 3.5 |
| 2313 | LAROS | 861105 | 4.82 | | | 0.99 | 1.14 | 550.0 | 4.80 | 21.1 | 8.8 |
| 2346 | LAROS | 861112 | 4.30 | 3 | | 1.02 | 1.03 | 330.0 | 4.19 | 70.5 | 36.5 |
| 2352 | LAROS | 861118 | 4.99 | | | 1.05 | 1.36 | 550.0 | 4.98 | 14.1 | 4.5 |
| 2431 | LAROS | 861209 | 4.50 | | | 1.05 | 1.19 | 550.0 | 4.89 | 19.8 | 5.8 |
| 2432 | LAROS | 861216 | 4.51 | | | 1.17 | 1.32 | 550.0 | 4.71 | 23.7 | 7.2 |
| 2486 | LAROS | 861222 | 4.84 | | | 1.01 | 1.36 | 550.0 | 4.76 | 21.6 | 6.3 |
| 2498 | LAROS | 861230 | 4.40 | | | 1.06 | 1.04 | 550.0 | 4.61 | 30.7 | 14.7 |

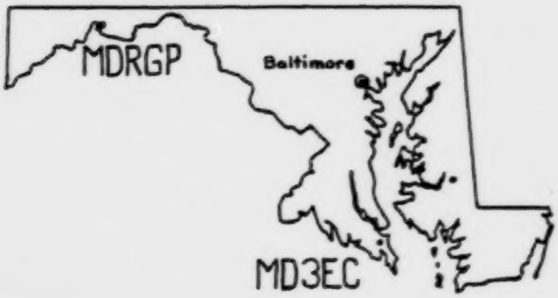
| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1902 | LAROS | 860520 | 0.009 | 0.387 | -0.008 | -0.024 | -0.013 | 1.036 | 1.608 | 0.340 | 0.232 |
| | | | 0.491 | 10.927 | -0.168 | -0.252 | -0.159 | 16.680 | 16.721 | 18.835 | 10.104 |
| 1917 | LAROS | 860603 | 0.006 | 0.230 | -0.012 | -0.026 | -0.009 | 0.382 | 0.403 | 0.064 | 0.114 |
| | | | 0.307 | 6.485 | -0.258 | -0.274 | -0.110 | 6.154 | 4.191 | 3.520 | 4.959 |
| 1931 | LAROS | 860610 | 0.009 | 0.368 | -0.012 | -0.014 | -0.018 | 0.904 | 0.957 | 0.095 | 0.205 |
| | | | 0.489 | 10.376 | -0.252 | -0.143 | -0.229 | 14.552 | 9.952 | 5.272 | 8.917 |
| 1943 | LAROS | 860617 | 0.060 | 0.226 | 0.000 | 0.007 | 0.000 | 1.768 | 2.564 | 1.690 | 0.116 |
| | | | 3.143 | 6.372 | 0.000 | 0.071 | 0.000 | 28.467 | 26.670 | 93.619 | 5.041 |
| 1980 | LAROS | 860701 | 0.012 | 0.387 | -0.007 | 0.039 | -0.012 | 0.787 | 0.743 | 0.049 | 0.225 |
| | | | 0.630 | 10.916 | -0.152 | 0.409 | -0.151 | 12.676 | 7.728 | 2.707 | 9.790 |
| 2004 | LAROS | 860708 | 0.067 | 1.736 | -0.002 | 0.031 | -0.012 | 1.898 | 2.614 | 0.403 | 0.972 |
| | | | 3.510 | 48.966 | -0.034 | 0.330 | -0.156 | 30.556 | 27.189 | 22.350 | 42.285 |
| 2014 | LAROS | 860715 | -0.004 | 0.168 | -0.003 | 0.052 | -0.007 | 1.650 | 1.554 | 0.169 | 0.090 |
| | | | -0.225 | 4.729 | -0.073 | 0.544 | -0.085 | 26.566 | 16.158 | 9.375 | 3.924 |
| 2033 | LAROS | 860722 | 0.034 | 0.196 | -0.011 | 0.033 | -0.004 | 2.501 | 1.768 | 0.245 | 0.125 |
| | | | 1.778 | 5.540 | -0.241 | 0.346 | -0.051 | 40.261 | 18.387 | 13.562 | 5.458 |
| 2069 | LAROS | 860729 | 0.024 | 0.064 | -0.007 | -0.050 | -0.017 | 1.202 | 1.309 | 0.197 | 0.037 |
| | | | 1.237 | 1.797 | -0.162 | -0.521 | -0.213 | 19.359 | 13.613 | 10.903 | 1.615 |
| 2087 | LAROS | 860805 | 0.033 | 0.900 | -0.004 | -0.025 | -0.020 | 2.136 | 1.577 | 0.410 | 0.521 |
| | | | 1.746 | 25.380 | -0.089 | -0.258 | -0.254 | 34.395 | 16.397 | 22.711 | 22.665 |
| 2104 | LAROS | 860819 | 0.021 | 0.720 | -0.005 | 0.034 | -0.015 | 0.597 | 1.174 | 0.315 | 0.384 |
| | | | 1.093 | 20.305 | -0.108 | 0.357 | -0.192 | 9.618 | 12.210 | 17.426 | 16.712 |
| 2124 | LAROS | 860826 | 0.041 | 0.346 | -0.021 | -0.178 | -0.124 | 2.056 | 2.226 | 0.306 | 0.222 |
| | | | 2.138 | 9.762 | -0.458 | -1.874 | -1.556 | 33.107 | 23.146 | 16.971 | 9.649 |
| 2139 | LAROS | 860902 | 0.010 | 0.129 | -0.009 | 0.048 | -0.003 | 0.504 | 0.696 | 0.083 | 0.059 |
| | | | 0.524 | 3.646 | -0.188 | 0.499 | -0.043 | 8.109 | 7.243 | 4.591 | 2.566 |
| 2200 | LAROS | 860909 | 0.011 | 0.249 | -0.021 | 0.038 | -0.013 | 0.602 | 0.653 | 0.079 | 0.118 |
| | | | 0.560 | 7.031 | -0.447 | 0.396 | -0.164 | 9.694 | 6.787 | 4.357 | 5.141 |
| 2210 | LAROS | 860916 | 0.007 | 0.172 | -0.029 | 0.036 | -0.010 | 0.831 | 0.902 | 0.137 | 0.100 |
| | | | 0.348 | 4.861 | -0.634 | 0.380 | -0.127 | 13.376 | 9.384 | 7.583 | 4.336 |
| 2226 | LAROS | 860930 | 0.039 | 4.598 | 0.000 | 0.013 | 0.000 | 1.684 | 3.365 | 0.623 | 2.602 |
| | | | 2.043 | 129.669 | 0.000 | 0.134 | 0.000 | 27.116 | 34.993 | 34.490 | 113.176 |
| 2227 | LAROS | 861007 | 0.005 | 0.201 | 0.000 | 0.024 | 0.000 | 0.442 | 0.621 | 0.180 | 0.109 |
| | | | 0.279 | 5.656 | 0.000 | 0.252 | 0.000 | 7.120 | 6.456 | 9.996 | 4.736 |

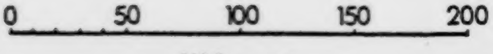
| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2262 | LAROS | 860923 | 0.009 | 0.657 | 0.000 | 0.030 | 0.000 | 0.794 | 0.977 | 0.187 | 0.350 |
| | | | 0.451 | 18.524 | 0.000 | 0.311 | 0.000 | 12.781 | 10.165 | 10.348 | 15.241 |
| 2278 | LAROS | 861021 | -0.008 | 0.594 | -0.011 | 0.102 | -0.051 | 0.228 | 0.338 | 0.088 | 0.336 |
| | | | -0.423 | 16.741 | -0.239 | 1.072 | -0.634 | 3.668 | 3.512 | 4.863 | 14.614 |
| 2297 | LAROS | 861028 | 0.002 | 0.237 | -0.023 | 0.036 | -0.075 | 0.178 | 0.409 | 0.088 | 0.140 |
| | | | 0.130 | 6.673 | -0.489 | 0.383 | -0.944 | 2.865 | 4.250 | 4.900 | 6.095 |
| 2313 | LAROS | 861105 | 0.008 | 0.421 | -0.015 | -0.025 | -0.036 | 0.472 | 0.952 | 0.169 | 0.260 |
| | | | 0.425 | 11.875 | -0.333 | -0.258 | -0.453 | 7.598 | 9.905 | 9.342 | 11.303 |
| 2346 | LAROS | 861112 | 0.017 | 1.053 | -0.015 | 0.053 | -0.014 | 2.144 | 3.535 | 0.609 | 0.682 |
| | | | 0.921 | 29.697 | -0.321 | 0.556 | -0.173 | 34.515 | 36.762 | 33.723 | 29.663 |
| 2352 | LAROS | 861118 | -0.003 | 0.223 | -0.012 | 0.075 | -0.013 | 0.246 | 0.515 | 0.075 | 0.122 |
| | | | -0.152 | 6.288 | -0.260 | 0.785 | -0.165 | 3.953 | 5.360 | 4.140 | 5.314 |
| 2431 | LAROS | 861209 | -0.005 | 0.136 | -0.009 | -0.031 | -0.056 | 0.322 | 0.706 | 0.092 | 0.059 |
| | | | -0.252 | 3.835 | -0.200 | -0.330 | -0.695 | 5.182 | 7.347 | 5.089 | 2.572 |
| 2432 | LAROS | 861216 | -0.005 | 0.037 | -0.010 | 0.104 | -0.058 | 0.376 | 0.952 | 0.092 | 0.009 |
| | | | -0.283 | 1.050 | -0.221 | 1.090 | -0.727 | 6.061 | 9.902 | 5.117 | 0.400 |
| 2486 | LAROS | 861222 | -0.003 | 0.019 | -0.006 | 0.053 | -0.017 | 0.523 | 0.716 | 0.122 | 0.011 |
| | | | -0.167 | 0.524 | -0.122 | 0.557 | -0.213 | 8.415 | 7.450 | 6.744 | 0.474 |
| 2498 | LAROS | 861230 | -0.006 | 0.685 | -0.009 | 0.010 | -0.012 | 0.873 | 1.383 | 0.221 | 0.356 |
| | | | -0.292 | 19.330 | -0.205 | 0.108 | -0.146 | 14.052 | 14.381 | 12.256 | 15.478 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1902 | LAROS | 860520 | 0.030 | 0.161 | 0.039 |
|  |  |  | 0.771 | 4.024 | 1.599 |
| 1917 | LAROS | 860603 | 0.011 | 0.023 | 0.015 |
|  |  |  | 0.284 | 0.577 | 0.637 |
| 1931 | LAROS | 860610 | 0.017 | 0.054 | 0.029 |
|  |  |  | 0.440 | 1.351 | 1.212 |
| 1943 | LAROS | 860617 | 0.049 | 0.067 | 0.019 |
|  |  |  | 1.255 | 1.679 | 0.797 |
| 1980 | LAROS | 860701 | 0.017 | 0.145 | 0.037 |
|  |  |  | 0.433 | 3.626 | 1.539 |
| 2004 | LAROS | 860708 | 0.090 | 0.267 | 0.157 |
|  |  |  | 2.308 | 6.660 | 6.475 |
| 2014 | LAROS | 860715 | 0.017 | 0.091 | 0.020 |
|  |  |  | 0.436 | 2.281 | 0.834 |
| 2033 | LAROS | 860722 | 0.054 | 0.147 | 0.026 |
|  |  |  | 1.383 | 3.671 | 1.090 |
| 2069 | LAROS | 860729 | 0.014 | 0.093 | 0.009 |
|  |  |  | 0.369 | 2.324 | 0.388 |
| 2087 | LAROS | 860805 | 0.056 | 0.106 | 0.060 |
|  |  |  | 1.432 | 2.634 | 2.487 |
| 2104 | LAROS | 860819 | 0.061 | 0.245 | 0.059 |
|  |  |  | 1.555 | 6.122 | 2.442 |
| 2124 | LAROS | 860826 | 0.049 | 0.310 | 0.053 |
|  |  |  | 1.257 | 7.727 | 2.169 |
| 2139 | LAROS | 860902 | 0.009 | 0.048 | 0.010 |
|  |  |  | 0.233 | 1.185 | 0.413 |
| 2200 | LAROS | 860909 | 0.008 | 0.059 | 0.018 |
|  |  |  | 0.202 | 1.476 | 0.755 |
| 2210 | LAROS | 860916 | 0.011 | 0.024 | 0.011 |
|  |  |  | 0.272 | 0.591 | 0.448 |
| 2226 | LAROS | 860930 | 0.134 | 0.701 | 0.351 |
|  |  |  | 3.430 | 17.495 | 14.458 |
| 2227 | LAROS | 861007 | 0.006 | 0.000 | 0.011 |
|  |  |  | 0.160 | 0.003 | 0.455 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 2262 | LAROS | 860923 | 0.021<br>0.549 | 0.052<br>1.297 | 0.044<br>1.816 |
| 2278 | LAROS | 861021 | 0.010<br>0.254 | 0.011<br>0.276 | 0.038<br>1.562 |
| 2297 | LAROS | 861028 | 0.013<br>0.328 | 0.019<br>0.479 | 0.018<br>0.720 |
| 2313 | LAROS | 861105 | 0.013<br>0.335 | 0.024<br>0.588 | 0.029<br>1.185 |
| 2346 | LAROS | 861112 | 0.049<br>1.243 | 0.073<br>1.814 | 0.071<br>2.909 |
| 2352 | LAROS | 861118 | 0.008<br>0.214 | 0.021<br>0.513 | 0.014<br>0.597 |
| 2431 | LAROS | 861209 | 0.006<br>0.160 | 0.028<br>0.692 | 0.008<br>0.338 |
| 2432 | LAROS | 861216 | 0.006<br>0.144 | 0.011<br>0.284 | 0.002<br>0.103 |
| 2486 | LAROS | 861222 | 0.007<br>0.169 | 0.012<br>0.306 | 0.001<br>0.032 |
| 2498 | LAROS | 861230 | 0.023<br>0.600 | 0.054<br>1.336 | 0.045<br>1.840 |

# MARYLAND


MDRGP
Baltimore
MD3EC


0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

MARYLAND

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD(1) BEGIN | END | #SAMPLES | %NON-VOID(2) |
|---|---|---|---|---|---|---|---|
| MDHUR | Hurlock | Hurlock | Dorchester | 27 MAR 84 | 1 AUG 84 | --- | --- |
| MDRGP | Rocky Gap | Cumberland | Allegany | | | 36 | 100 |
| MD3EC | The Elms | Lexington Pk | St Marys | | | 38 | 97 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)

Site: MDRGP

Data Plots, JAN '86 - DEC '86

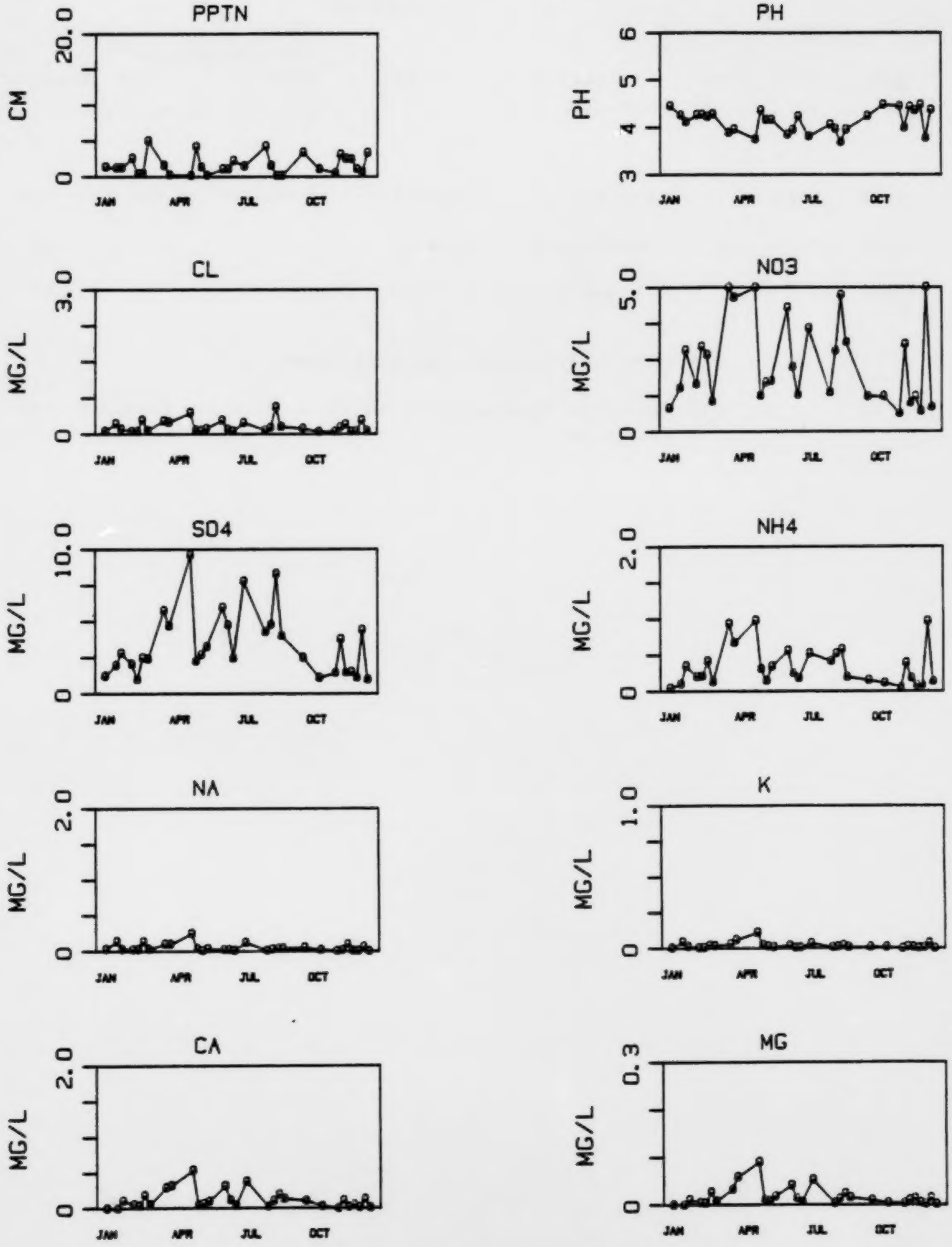
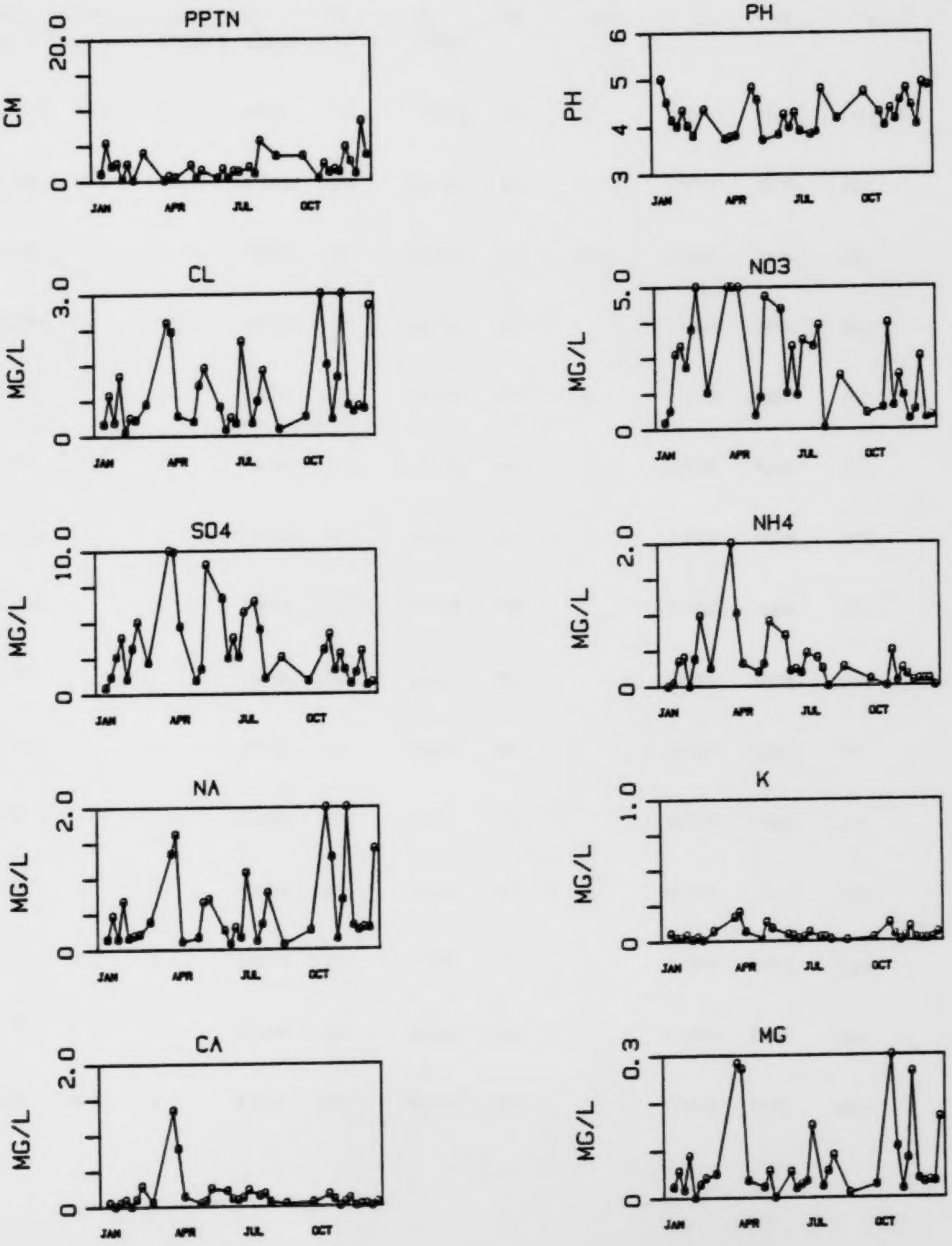


Figure 2-1 (continued)

Site: MD3EC

Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1573 | MDRGP | 860114 | 2 | 930 | 860121 | 930 | 860130 | 2 | 0.56 | 1143.00 | 15.1 |
| 1601 | MDRGP | 860128 | 2 | 930 | 860204 | 930 | 860210 | 2 | 0.50 | 826.00 | 24.8 |
| 1644 | MDRGP | 860204 | 1 | 930 | 860213 | 930 | 860227 | | | 870.00 | 36.1 |
| 1656 | MDRGP | 860218 | | 930 | 860225 | 930 | 860304 | | | 1747.00 | 25.3 |
| 1670 | MDRGP | 860225 | 1 | 930 | 860304 | 930 | 860311 | | | 276.00 | 24.5 |
| 1698 | MDRGP | 860304 | 2 | 930 | 860311 | 930 | 860321 | 2 | | 346.00 | 33.1 |
| 1710 | MDRGP | 860311 | | 930 | 860318 | 930 | 860327 | | | 3394.00 | 25.9 |
| 1752 | MDRGP | 860401 | | 930 | 860408 | 930 | 860415 | | | 1058.00 | 68.3 |
| 1772 | MDRGP | 860408 | | 930 | 860415 | 930 | 860423 | | | 169.00 | 55.4 |
| 1797 | MDRGP | 860415 | | 930 | 860422 | 930 | 860501 | 3 | | 1965.00 | 47.5 |
| 1822 | MDRGP | 860422 | | 930 | 860429 | 930 | 860508 | | | 86.00 | |
| 1841 | MDRGP | 860506 | | 930 | 860513 | 930 | 860521 | 2 | | 92.00 | |
| 1869 | MDRGP | 860520 | | 930 | 860527 | 930 | 860603 | 3 | 0.53 | 975.00 | 70.8 |
| 1880 | MDRGP | 860513 | | 930 | 860520 | 930 | 860606 | 5 | 1.65 | 2874.00 | 22.4 |
| 1890 | MDRGP | 860527 | | 930 | 860603 | 930 | 860610 | 1 | 0.07 | 107.00 | |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1573 | MDRGP | 860114 | 4.43 | | | 1.03 | 1.04 | 550.000 | 4.45 | 40.70 | 15.0 |
| 1601 | MDRGP | 860128 | 4.23 | | | 1.08 | 0.94 | 550.000 | 4.25 | 67.26 | 27.3 |
| 1644 | MDRGP | 860204 | 4.10 | | | 1.03 | 1.04 | 550.000 | 4.11 | 82.10 | 35.3 |
| 1656 | MDRGP | 860218 | 4.24 | | | 1.04 | 1.07 | 550.000 | 4.26 | 60.43 | 23.8 |
| 1670 | MDRGP | 860225 | 4.23 | | | 1.02 | 1.02 | 210.000 | 4.27 | 61.49 | 24.2 |
| 1698 | MDRGP | 860304 | 4.14 | 3 | | 1.04 | 1.02 | 250.000 | 4.22 | 68.46 | 30.8 |
| 1710 | MDRGP | 860311 | 4.21 | | 22 | 1.12 | 1.01 | 550.000 | 4.28 | 62.08 | 24.1 |
| 1752 | MDRGP | 860401 | 3.82 | 3 | 33 | 1.05 | 0.99 | 550.000 | 3.89 | 138.82 | 66.1 |
| 1772 | MDRGP | 860408 | 3.92 | | | 1.05 | 1.08 | 80.000 | 3.96 | 115.93 | 51.6 |
| 1797 | MDRGP | 860415 | 3.99 | 3 | 32 | 1.03 | 1.04 | 550.000 | 4.01 | 105.64 | 44.9 |
| 1822 | MDRGP | 860422 | | 3 | 34 | 1.03 | 1.14 | 100.000 | 3.66 | 239.77 | 118.9 |
| 1841 | MDRGP | 860506 | | 3 | | 1.13 | 0.96 | 85.000 | 3.75 | 199.90 | 95.8 |
| 1869 | MDRGP | 860520 | 4.11 | | | 1.06 | 1.03 | 550.000 | 4.16 | 76.30 | 30.5 |
| 1880 | MDRGP | 860513 | 4.28 | 3 | | 1.05 | 1.05 | 550.000 | 4.36 | 54.30 | 21.0 |
| 1890 | MDRGP | 860527 | | | | 1.05 | 1.03 | 100.000 | 4.16 | 81.90 | 32.4 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1573 | MDRGP | 860114 | -0.007 | 0.059 | -0.006 | -0.029 | -0.007 | 0.829 | 1.218 | 0.043 | 0.033 |
| | | | -0.360 | 1.661 | -0.139 | -0.304 | -0.093 | 13.344 | 12.663 | 2.376 | 1.436 |
| 1601 | MDRGP | 860128 | 0.005 | 0.220 | -0.014 | -0.008 | 0.156 | 1.526 | 1.962 | 0.103 | 0.140 |
| | | | 0.251 | 6.209 | -0.296 | -0.089 | 1.956 | 24.564 | 20.405 | 5.685 | 6.072 |
| 1644 | MDRGP | 860204 | 0.014 | 0.107 | -0.021 | -0.041 | -0.062 | 2.812 | 2.800 | 0.349 | 0.031 |
| | | | 0.722 | 3.005 | -0.466 | -0.425 | -0.778 | 45.267 | 29.121 | 19.357 | 1.335 |
| 1656 | MDRGP | 860218 | 0.010 | 0.058 | -0.013 | 0.052 | -0.023 | 1.655 | 2.031 | 0.199 | 0.028 |
| | | | 0.529 | 1.627 | -0.272 | 0.549 | -0.292 | 26.642 | 21.123 | 10.998 | 1.228 |
| 1670 | MDRGP | 860225 | 0.008 | 0.059 | -0.014 | -0.057 | -0.041 | 2.947 | 0.986 | 0.211 | 0.030 |
| | | | 0.420 | 1.661 | -0.309 | -0.601 | -0.509 | 47.451 | 10.255 | 11.673 | 1.300 |
| 1698 | MDRGP | 860304 | 0.027 | 0.291 | -0.011 | -0.036 | -0.068 | 2.665 | 2.488 | 0.413 | 0.138 |
| | | | 1.433 | 8.218 | -0.230 | -0.377 | -0.846 | 42.899 | 25.877 | 22.901 | 6.006 |
| 1710 | MDRGP | 860311 | 0.007 | 0.078 | -0.012 | 0.048 | 0.118 | 1.061 | 2.397 | 0.128 | 0.034 |
| | | | 0.371 | 2.206 | -0.254 | 0.507 | 1.473 | 17.089 | 24.933 | 7.091 | 1.485 |
| 1752 | MDRGP | 860401 | 0.030 | 0.272 | -0.015 | -0.031 | -0.047 | 5.195 | 5.747 | 0.932 | 0.103 |
| | | | 1.573 | 7.663 | -0.335 | -0.323 | -0.585 | 83.635 | 59.767 | 51.651 | 4.472 |
| 1772 | MDRGP | 860408 | 0.025 | 0.244 | -0.044 | -0.025 | -0.032 | 4.648 | 4.674 | 0.671 | 0.101 |
| | | | 1.317 | 6.882 | -0.966 | -0.263 | -0.397 | 74.828 | 48.610 | 37.184 | 4.395 |
| 1797 | MDRGP | 860415 | 0.018 | 0.147 | -0.012 | 0.014 | -0.008 | 3.478 | 3.659 | 0.491 | 0.036 |
| | | | 0.936 | 4.134 | -0.252 | 0.150 | -0.099 | 56.003 | 38.050 | 27.215 | 1.546 |
| 1822 | MDRGP | 860422 | 0.096 | 0.588 | -0.130 | 0.114 | -0.007 | 6.837 | 18.633 | 2.430 | 0.410 |
| | | | 5.044 | 16.570 | -2.830 | 1.201 | -0.092 | 110.071 | 193.782 | 134.609 | 17.835 |
| 1841 | MDRGP | 860506 | 0.048 | 0.445 | -0.009 | 0.027 | 0.063 | 6.015 | 9.592 | 0.977 | 0.248 |
| | | | 2.545 | 12.547 | -0.193 | 0.283 | 0.794 | 96.837 | 99.756 | 54.136 | 10.786 |
| 1869 | MDRGP | 860520 | 0.013 | 0.067 | -0.017 | -0.009 | -0.012 | 1.709 | 2.700 | 0.145 | 0.008 |
| | | | 0.684 | 1.903 | -0.374 | -0.098 | -0.151 | 27.518 | 28.079 | 8.058 | 0.367 |
| 1880 | MDRGP | 860513 | 0.010 | 0.082 | -0.015 | -0.012 | -0.007 | 1.248 | 2.251 | 0.309 | 0.044 |
| | | | 0.511 | 2.316 | -0.337 | -0.124 | -0.085 | 20.100 | 23.413 | 17.116 | 1.922 |
| 1890 | MDRGP | 860527 | 0.032 | 0.114 | -0.005 | -0.017 | -0.013 | 1.763 | 3.243 | 0.344 | 0.040 |
| | | | 1.693 | 3.208 | -0.104 | -0.174 | -0.168 | 28.389 | 33.730 | 19.064 | 1.724 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1573 | MDRGP | 860114 | 0.005 | 0.002 | 0.000 |
| | | | 0.120 | 0.055 | 0.019 |
| 1601 | MDRGP | 860128 | 0.047 | -0.037 | -0.003 |
| | | | 1.204 | -0.934 | -0.106 |
| 1644 | MDRGP | 860204 | 0.014 | 0.110 | 0.011 |
| | | | 0.366 | 2.734 | 0.461 |
| 1656 | MDRGP | 860218 | 0.005 | 0.055 | 0.005 |
| | | | 0.124 | 1.372 | 0.197 |
| 1670 | MDRGP | 860225 | 0.005 | 0.039 | 0.004 |
| | | | 0.124 | 0.976 | 0.162 |
| 1698 | MDRGP | 860304 | 0.021 | 0.186 | 0.027 |
| | | | 0.531 | 4.644 | 1.104 |
| 1710 | MDRGP | 860311 | 0.019 | 0.056 | 0.008 |
| | | | 0.481 | 1.396 | 0.333 |
| 1752 | MDRGP | 860401 | 0.032 | 0.290 | 0.033 |
| | | | 0.828 | 7.228 | 1.359 |
| 1772 | MDRGP | 860408 | 0.061 | 0.319 | 0.059 |
| | | | 1.556 | 7.969 | 2.429 |
| 1797 | MDRGP | 860415 | 0.039 | 0.116 | 0.020 |
| | | | 1.007 | 2.889 | 0.804 |
| 1822 | MDRGP | 860422 | 0.338 | 2.240 | 0.247 |
| | | | 8.645 | 55.876 | 10.155 |
| 1841 | MDRGP | 860506 | 0.111 | 0.537 | 0.090 |
| | | | 2.830 | 13.396 | 3.711 |
| 1869 | MDRGP | 860520 | 0.014 | 0.067 | 0.008 |
| | | | 0.362 | 1.673 | 0.316 |
| 1880 | MDRGP | 860513 | 0.025 | 0.053 | 0.011 |
| | | | 0.632 | 1.326 | 0.466 |
| 1890 | MDRGP | 860527 | 0.009 | 0.101 | 0.018 |
| | | | 0.226 | 2.532 | 0.737 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1927 | MDRGP | 860610 | | | 860617 | | 860623 | 3 | 0.45 | 965.00 | 41.2 |
| 1949 | MDRGP | 860617 | | 930 | 860624 | 930 | 860702 | 2 | 0.43 | 771.00 | 67.3 |
| 1974 | MDRGP | 860624 | | 930 | 860701 | 930 | 860715 | 3 | 0.42 | 695.00 | 51.6 |
| 1997 | MDRGP | 860708 | | 930 | 860715 | 930 | 860725 | 4 | 1.30 | 2319.00 | 48.2 |
| 2005 | MDRGP | 860715 | | 930 | 860722 | 930 | 860728 | 4 | 0.58 | 1006.00 | 76.4 |
| 2022 | MDRGP | 860701 | | 930 | 860708 | 930 | 860801 | 2 | 0.88 | 1549.00 | 26.7 |
| 2034 | MDRGP | 860722 | | 930 | 860729 | 930 | 860807 | 4 | 0.34 | 589.00 | 98.5 |
| 2096 | MDRGP | 860812 | | 930 | 860819 | 930 | 860828 | 1 | 1.67 | 2736.00 | 41.2 |
| 2140 | MDRGP | 860902 | | 930 | 860909 | 930 | 860917 | 2 | 0.05 | 78.00 | |
| 2145 | MDRGP | 860819 | | 930 | 860826 | 930 | 860918 | 3 | | 1043.00 | |
| 2168 | MDRGP | 860826 | | 930 | 860902 | 930 | 860925 | 4 | 0.05 | 104.00 | |
| 2203 | MDRGP | 860923 | | 930 | 860930 | 930 | 861007 | 5 | 1.11 | 2044.00 | 41.7 |
| 2215 | MDRGP | 860930 | | 930 | 861007 | 930 | 861015 | 5 | 1.33 | 2451.00 | 26.1 |
| 2286 | MDRGP | 861021 | | 930 | 861028 | 930 | 861106 | 3 | 0.41 | 714.00 | 14.9 |
| 2348 | MDRGP | 861111 | | 930 | 861118 | 930 | 861129 | | | 341.00 | 14.8 |
| 2369 | MDRGP | 861118 | | 930 | 861125 | 930 | 861204 | | | 2083.00 | 43.8 |
| 2380 | MDRGP | 861125 | | 930 | 861202 | 930 | 861210 | | | 1685.00 | 17.3 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2435 | MDR6P | 861202 | | 930 | 861209 | 930 | 870105 | 2 | | 1645.00 | 18.7 |
| 2436 | MDR6P | 861209 | | 930 | 861216 | 930 | 870105 | 2 | 0.41 | 457.00 | 14.0 |
| 2437 | MDR6P | 861216 | | 930 | 861223 | 930 | 870105 | 2 | 0.26 | 441.00 | 77.9 |
| 2453 | MDR6P | 861223 | | 930 | 861230 | 930 | 870107 | 2 | 1.30 | 2237.00 | 17.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1927 | MDRGP | 860610 | 4.03 | | 34 | 1.03 | 0.97 | 550.0 | 4.08 | 96.0 | 41.0 |
| 1949 | MDRGP | 860617 | 3.80 | | | 1.06 | 0.96 | 550.0 | 3.85 | 155.3 | 70.5 |
| 1974 | MDRGP | 860624 | 3.91 | | | 1.05 | 1.01 | 400.0 | 3.95 | 123.3 | 50.7 |
| 1997 | MDRGP | 860708 | 3.90 | | 34 | 1.09 | 0.97 | 550.0 | 3.99 | 119.2 | 49.2 |
| 2005 | MDRGP | 860715 | 3.74 | | | 1.08 | 0.98 | 550.0 | 3.81 | 173.3 | 76.8 |
| 2022 | MDRGP | 860701 | 4.19 | | | 1.05 | 1.04 | 550.0 | 4.23 | 65.2 | 26.1 |
| 2034 | MDRGP | 860722 | 3.60 | 3 | 34 | 1.07 | 0.97 | 415.0 | 3.68 | 229.6 | 101.4 |
| 2096 | MDRGP | 860812 | 3.87 | | | 1.03 | 1.12 | 550.0 | 4.06 | 94.3 | 36.6 |
| 2140 | MDRGP | 860902 | | | | 1.08 | 1.03 | 60.0 | 3.96 | 120.8 | 48.5 |
| 2145 | MDRGP | 860819 | 3.84 | | 22 | 1.05 | 1.05 | 550.0 | 3.97 | 112.2 | 48.6 |
| 2168 | MDRGP | 860826 | | 3 | | 1.09 | 1.00 | 100.0 | 3.69 | 218.4 | 94.8 |
| 2203 | MDRGP | 860923 | 3.92 | | 34 | 1.06 | 1.04 | 550.0 | 4.03 | 102.7 | 40.5 |
| 2215 | MDRGP | 860930 | 4.14 | | | 1.02 | 1.13 | 550.0 | 4.24 | 63.9 | 23.7 |
| 2286 | MDRGP | 861021 | 4.31 | | | 1.11 | 1.16 | 550.0 | 4.48 | 39.8 | 13.4 |
| 2348 | MDRGP | 861111 | 4.42 | | | 1.13 | 1.11 | 200.0 | 4.45 | 42.1 | 14.3 |
| 2369 | MDRGP | 861118 | 3.99 | 3 | | 1.03 | 1.02 | 550.0 | 4.00 | 110.5 | 45.6 |
| 2380 | MDRGP | 861125 | 4.43 | | | 1.01 | 1.12 | 550.0 | 4.44 | 39.6 | 15.6 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2435 | MDRGP | 861202 | 4.34 | 3 |  | 1.13 | 1.12 | 550.0 | 4.36 | 49.8 | 17.7 |
| 2436 | MDRGP | 861209 | 4.44 |  |  | 1.09 | 1.21 | 350.0 | 4.48 | 36.4 | 12.3 |
| 2437 | MDRGP | 861216 | 3.71 | 3 |  | 1.06 | 0.98 | 275.0 | 3.78 | 176.0 | 81.4 |
| 2453 | MDRGP | 861223 | 4.28 |  |  | 0.94 | 1.14 | 550.0 | 4.37 | 48.6 | 15.8 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1927 | MDRGP | 860610 | 0.025 | 0.157 | -0.013 | -0.010 | -0.017 | 1.872 | 3.947 | 0.355 | 0.047 |
| | | | 1.325 | 4.423 | -0.288 | -0.100 | -0.214 | 30.137 | 41.048 | 19.687 | 2.063 |
| 1949 | MDRGP | 860617 | 0.039 | 0.284 | -0.002 | -0.029 | -0.019 | 4.295 | 5.959 | 0.561 | 0.026 |
| | | | 2.049 | 8.002 | -0.037 | -0.303 | -0.239 | 69.148 | 61.977 | 31.059 | 1.113 |
| 1974 | MDRGP | 860624 | 0.017 | 0.104 | -0.006 | 0.042 | -0.014 | 2.236 | 4.753 | 0.249 | 0.022 |
| | | | 0.896 | 2.920 | -0.134 | 0.444 | -0.179 | 36.002 | 49.435 | 13.777 | 0.945 |
| 1997 | MDRGP | 860708 | 0.024 | 0.165 | -0.002 | 0.034 | -0.015 | 2.112 | 4.781 | 0.215 | 0.062 |
| | | | 1.245 | 4.661 | -0.049 | 0.360 | -0.187 | 34.007 | 49.719 | 11.913 | 2.694 |
| 2005 | MDRGP | 860715 | 0.031 | 0.233 | -0.001 | 0.033 | -0.012 | 3.568 | 7.790 | 0.523 | 0.123 |
| | | | 1.624 | 6.581 | -0.033 | 0.343 | -0.152 | 57.447 | 81.021 | 28.978 | 5.350 |
| 2022 | MDRGP | 860701 | 0.015 | 0.059 | -0.007 | 0.053 | -0.006 | 1.279 | 2.448 | 0.180 | 0.016 |
| | | | 0.764 | 1.673 | -0.146 | 0.556 | -0.070 | 20.587 | 25.459 | 9.965 | 0.674 |
| 2034 | MDRGP | 860722 | 0.054 | 0.250 | -0.011 | 0.040 | -0.004 | 5.155 | 9.381 | 0.725 | 0.046 |
| | | | 2.825 | 7.051 | -0.248 | 0.419 | -0.050 | 82.994 | 97.558 | 40.139 | 1.993 |
| 2096 | MDRGP | 860812 | 0.023 | 0.077 | -0.005 | 0.046 | -0.018 | 1.362 | 4.260 | 0.416 | 0.012 |
| | | | 1.216 | 2.162 | -0.098 | 0.484 | -0.225 | 21.925 | 44.300 | 23.062 | 0.533 |
| 2140 | MDRGP | 860902 | 0.029 | 0.149 | -0.008 | 0.045 | -0.004 | 3.092 | 3.995 | 0.198 | 0.041 |
| | | | 1.515 | 4.195 | -0.184 | 0.471 | -0.045 | 49.782 | 41.544 | 10.963 | 1.788 |
| 2145 | MDRGP | 860819 | 0.014 | 0.135 | -0.008 | 0.046 | -0.004 | 2.794 | 4.775 | 0.523 | 0.029 |
| | | | 0.749 | 3.808 | -0.166 | 0.488 | -0.055 | 44.982 | 49.665 | 28.981 | 1.258 |
| 2168 | MDRGP | 860826 | 0.087 | 0.557 | -0.011 | 0.026 | -0.026 | 4.732 | 8.288 | 0.579 | 0.042 |
| | | | 4.566 | 15.717 | -0.233 | 0.271 | -0.328 | 76.179 | 86.194 | 32.095 | 1.819 |
| 2203 | MDRGP | 860923 | 0.016 | 0.121 | -0.023 | 0.052 | 0.039 | 2.086 | 3.637 | 0.184 | 0.029 |
| | | | 0.844 | 3.421 | -0.503 | 0.543 | 0.490 | 33.580 | 37.826 | 10.194 | 1.252 |
| 2215 | MDRGP | 860930 | 0.014 | 0.109 | 0.000 | 0.022 | 0.000 | 1.215 | 2.475 | 0.150 | 0.056 |
| | | | 0.729 | 3.061 | 0.000 | 0.229 | 0.000 | 19.556 | 25.742 | 8.324 | 2.444 |
| 2286 | MDRGP | 861021 | 0.007 | 0.041 | 0.026 | 0.055 | -0.004 | 1.219 | 1.093 | 0.110 | 0.019 |
| | | | 0.369 | 1.150 | 0.570 | 0.582 | -0.055 | 19.621 | 11.368 | 6.094 | 0.837 |
| 2348 | MDRGP | 861111 | 0.006 | 0.051 | 0.010 | 0.060 | -0.031 | 0.628 | 1.443 | 0.055 | 0.007 |
| | | | 0.294 | 1.446 | 0.211 | 0.626 | -0.389 | 10.108 | 15.009 | 3.034 | 0.310 |
| 2369 | MDRGP | 861118 | 0.019 | 0.138 | -0.010 | 0.026 | -0.009 | 3.003 | 3.750 | 0.388 | 0.016 |
| | | | 1.023 | 3.880 | -0.220 | 0.275 | -0.116 | 48.344 | 39.003 | 21.472 | 0.707 |
| 2380 | MDRGP | 861125 | -0.000 | 0.199 | 0.019 | -0.015 | 0.049 | 0.985 | 1.459 | 0.180 | 0.098 |
| | | | -0.023 | 5.600 | 0.409 | -0.156 | 0.614 | 15.856 | 15.175 | 9.955 | 4.271 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2435 | MDRGP | 861202 | -0.006 | 0.048 | -0.010 | 0.104 | 0.210 | 1.218 | 1.490 | 0.080 | 0.007 |
| | | | -0.293 | 1.358 | -0.221 | 1.096 | 2.627 | 19.617 | 15.492 | 4.437 | 0.320 |
| 2436 | MDRGP | 861209 | -0.006 | 0.056 | -0.010 | 0.095 | 0.235 | 0.704 | 1.100 | 0.082 | 0.004 |
| | | | -0.296 | 1.581 | -0.221 | 1.002 | 2.943 | 11.341 | 11.436 | 4.560 | 0.167 |
| 2437 | MDRGP | 861216 | 0.036 | 0.285 | -0.010 | 0.109 | -0.057 | 8.619 | 4.392 | 0.963 | 0.061 |
| | | | 1.902 | 8.024 | -0.221 | 1.147 | -0.716 | 138.759 | 45.680 | 53.340 | 2.651 |
| 2453 | MDRGP | 861223 | -0.005 | 0.061 | -0.008 | -0.033 | 0.924 | 0.846 | 0.966 | 0.136 | -0.003 |
| | | | -0.244 | 1.718 | -0.182 | -0.343 | 11.566 | 13.627 | 10.046 | 7.518 | -0.151 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1927 | MDRGP | 860610 | 0.026 | 0.156 | 0.019 |
| | | | 0.668 | 3.904 | 0.770 |
| 1949 | MDRGP | 860617 | 0.021 | 0.317 | 0.041 |
| | | | 0.541 | 7.907 | 1.700 |
| 1974 | MDRGP | 860624 | 0.005 | 0.116 | 0.014 |
| | | | 0.140 | 2.902 | 0.567 |
| 1997 | MDRGP | 860708 | 0.019 | 0.216 | 0.027 |
| | | | 0.498 | 5.380 | 1.117 |
| 2005 | MDRGP | 860715 | 0.034 | 0.380 | 0.053 |
| | | | 0.881 | 9.474 | 2.177 |
| 2022 | MDRGP | 860701 | 0.008 | 0.042 | 0.006 |
| | | | 0.198 | 1.037 | 0.255 |
| 2034 | MDRGP | 860722 | 0.029 | 0.354 | 0.038 |
| | | | 0.745 | 8.820 | 1.569 |
| 2096 | MDRGP | 860812 | 0.007 | 0.024 | 0.003 |
| | | | 0.186 | 0.608 | 0.140 |
| 2140 | MDRGP | 860902 | 0.007 | 0.128 | 0.015 |
| | | | 0.175 | 3.206 | 0.610 |
| 2145 | MDRGP | 860819 | 0.011 | 0.104 | 0.013 |
| | | | 0.290 | 2.600 | 0.523 |
| 2168 | MDRGP | 860826 | 0.022 | 0.194 | 0.024 |
| | | | 0.551 | 4.846 | 0.986 |
| 2203 | MDRGP | 860923 | 0.012 | 0.087 | 0.009 |
| | | | 0.314 | 2.175 | 0.357 |
| 2215 | MDRGP | 860930 | 0.009 | 0.102 | 0.010 |
| | | | 0.223 | 2.544 | 0.392 |
| 2286 | MDRGP | 861021 | 0.008 | 0.029 | 0.004 |
| | | | 0.208 | 0.732 | 0.146 |
| 2348 | MDRGP | 861111 | -0.005 | -0.013 | 0.003 |
| | | | -0.119 | -0.319 | 0.130 |
| 2369 | MDRGP | 861118 | 0.012 | 0.109 | 0.010 |
| | | | 0.313 | 2.708 | 0.413 |
| 2380 | MDRGP | 861125 | 0.008 | 0.020 | 0.013 |
| | | | 0.196 | 0.491 | 0.555 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 2435 | MDRGP | 861202 | 0.002 | 0.052 | 0.005 |
| | | | 0.061 | 1.294 | 0.188 |
| 2436 | MDRGP | 861209 | 0.006 | 0.012 | 0.002 |
| | | | 0.147 | 0.288 | 0.069 |
| 2437 | MDRGP | 861216 | 0.037 | 0.127 | 0.015 |
| | | | 0.937 | 3.168 | 0.604 |
| 2453 | MDRGP | 861223 | 0.001 | 0.007 | 0.001 |
| | | | 0.014 | 0.167 | 0.048 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1555 | MD3EC | 860114 | 2 | 959 | 860121 | 937 | 860127 | 2 | 0.44 | 743.00 | 4.3 |
| 1587 | MD3EC | 860121 |  | 948 | 860128 | 959 | 860205 | 2 | 2.12 | 3666.00 | 16.2 |
| 1607 | MD3EC | 860128 | 2 | 959 | 860204 | 1005 | 860212 | 4 | 0.83 | 1462.00 | 42.3 |
| 1659 | MD3EC | 860218 | 1 | 940 | 860225 | 937 | 860305 | 5 | 0.95 | 1677.00 | 46.1 |
| 1680 | MD3EC | 860211 | 1 | 1011 | 860218 | 940 | 860312 | 2 | 0.14 | 247.00 | 23.1 |
| 1681 | MD3EC | 860225 |  | 943 | 860304 | 937 | 860312 | 1 | 0.06 | 90.00 |  |
| 1683 | MD3EC | 860204 | 2 | 1005 | 860211 | 1011 | 860314 | 4 | 0.98 | 1694.00 | 49.8 |
| 1709 | MD3EC | 860311 |  | 942 | 860318 | 955 | 860327 | 4 | 1.55 | 2575.00 | 23.8 |
| 1762 | MD3EC | 860401 |  | 1000 | 860408 | 930 | 860416 | 4 |  | 284.00 | 112.0 |
| 1770 | MD3EC | 860408 |  | 930 | 860415 | 1015 | 860422 | 2 |  | 87.00 |  |
| 1796 | MD3EC | 860414 |  | 1015 | 860422 | 940 | 860501 | 4 | 0.29 | 488.00 | 97.9 |
| 1804 | MD3EC | 860422 |  | 940 | 860429 | 841 | 860505 | 3 | 0.20 | 320.00 | 72.3 |
| 1852 | MD3EC | 860513 |  | 840 | 860520 | 1020 | 860528 | 3 | 0.88 | 1480.00 | 11.5 |
| 1879 | MD3EC | 860520 |  | 1020 | 860527 | 845 | 860606 | 3 | 0.20 | 341.00 | 19.9 |
| 1899 | MD3EC | 860527 |  | 845 | 860603 | 826 | 860612 | 4 | 0.60 | 931.00 | 100.0 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1555 | MD3EC | 860114 | 5.00 | | | 0.98 | 1.38 | 500.000 | 5.01 | 15.39 | 4.1 |
| 1587 | MD3EC | 860121 | 4.52 | | | 1.03 | 1.08 | 525.000 | 4.52 | 34.89 | 15.3 |
| 1607 | MD3EC | 860128 | 4.07 | | | 1.04 | 1.02 | 525.000 | 4.14 | 85.48 | 34.4 |
| 1659 | MD3EC | 860218 | 4.01 | | | 1.02 | 1.04 | 475.000 | 4.02 | 104.18 | 43.8 |
| 1680 | MD3EC | 860211 | 4.29 | 3 | | 1.18 | 1.27 | 100.000 | 4.34 | 52.31 | 16.3 |
| 1681 | MD3EC | 860225 | | 3 | | 1.05 | 0.97 | 100.000 | 3.81 | 168.54 | 79.8 |
| 1683 | MD3EC | 860204 | 4.08 | | | 1.02 | 0.99 | 550.000 | 4.01 | 110.22 | 50.8 |
| 1709 | MD3EC | 860311 | 4.37 | | 33 | 1.05 | 1.03 | 525.000 | 4.36 | 50.57 | 23.4 |
| 1762 | MD3EC | 860401 | 3.69 | 3 | 32 | 1.02 | 1.03 | 200.000 | 3.71 | 212.66 | 102.9 |
| 1770 | MD3EC | 860408 | | 3 | 21 | 1.02 | 1.12 | 70.000 | 3.75 | 195.50 | 105.7 |
| 1796 | MD3EC | 860414 | 3.75 | 3 | 33 | 1.02 | 1.00 | 350.000 | 3.79 | 176.57 | 95.1 |
| 1804 | MD3EC | 860422 | 3.83 | 3 | | 1.06 | 1.00 | 170.000 | 3.82 | 159.24 | 69.4 |
| 1852 | MD3EC | 860513 | 4.72 | | | 1.00 | 1.11 | 310.000 | 4.83 | 18.30 | 8.5 |
| 1879 | MD3EC | 860520 | 4.54 | 3 | | 1.00 | 1.07 | 195.000 | 4.57 | 41.60 | 18.0 |
| 1899 | MD3EC | 860527 | 3.70 | 3 | | 1.07 | 0.97 | 475.000 | 3.72 | 210.30 | 98.5 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1555 | MD3EC | 860114 | -0.006 | 0.255 | -0.032 | 0.031 | -0.023 | 0.230 | 0.458 | -0.006 | 0.146 |
| | | | -0.340 | 7.195 | -0.700 | 0.322 | -0.284 | 3.703 | 4.760 | -0.331 | 6.355 |
| 1587 | MD3EC | 860121 | 0.004 | 0.855 | -0.011 | -0.010 | -0.038 | 0.648 | 1.206 | 0.048 | 0.474 |
| | | | 0.193 | 24.109 | -0.240 | -0.101 | -0.477 | 10.436 | 12.542 | 2.673 | 20.606 |
| 1607 | MD3EC | 860128 | 0.014 | 0.289 | -0.007 | -0.014 | -0.054 | 2.626 | 2.625 | 0.352 | 0.147 |
| | | | 0.733 | 8.155 | -0.153 | -0.152 | -0.673 | 42.279 | 27.298 | 19.503 | 6.388 |
| 1659 | MD3EC | 860218 | 0.012 | 0.378 | -0.013 | -0.051 | -0.026 | 3.502 | 3.212 | 0.383 | 0.195 |
| | | | 0.648 | 10.656 | -0.278 | -0.539 | -0.330 | 56.382 | 33.408 | 21.217 | 8.474 |
| 1680 | MD3EC | 860211 | 0.040 | 0.096 | -0.014 | -0.600 | -0.058 | 2.177 | 1.055 | -0.010 | 0.162 |
| | | | 2.085 | 2.710 | -0.302 | -6.305 | -0.731 | 35.051 | 10.975 | -0.547 | 7.065 |
| 1681 | MD3EC | 860225 | 0.030 | 0.339 | -0.014 | -0.583 | -0.059 | 8.145 | 5.027 | 0.980 | 0.212 |
| | | | 1.559 | 9.554 | -0.296 | -6.120 | -0.741 | 131.131 | 52.276 | 54.267 | 9.221 |
| 1683 | MD3EC | 860204 | 0.018 | 1.262 | -0.013 | -0.051 | -0.060 | 2.907 | 3.955 | 0.407 | 0.678 |
| | | | 0.942 | 35.591 | -0.289 | -0.535 | -0.751 | 46.805 | 41.129 | 22.524 | 29.474 |
| 1709 | MD3EC | 860311 | 0.010 | 0.677 | -0.011 | 0.042 | -0.069 | 1.285 | 2.203 | 0.251 | 0.389 |
| | | | 0.505 | 19.097 | -0.249 | 0.439 | -0.861 | 20.691 | 22.911 | 13.926 | 16.943 |
| 1762 | MD3EC | 860401 | 0.040 | 1.547 | -0.018 | 0.064 | -0.047 | 7.722 | 9.411 | 1.246 | 1.391 |
| | | | 2.089 | 43.628 | -0.396 | 0.673 | -0.585 | 124.318 | 97.875 | 69.008 | 60.495 |
| 1770 | MD3EC | 860408 | 0.042 | 2.396 | -0.041 | -0.211 | -0.034 | 9.568 | 12.671 | 2.660 | 1.346 |
| | | | 2.221 | 67.561 | -0.896 | -2.216 | -0.422 | 154.048 | 131.780 | 147.373 | 58.537 |
| 1796 | MD3EC | 860414 | 0.046 | 2.205 | -0.011 | 0.025 | 0.037 | 5.746 | 9.889 | 1.019 | 1.616 |
| | | | 2.424 | 62.179 | -0.246 | 0.266 | 0.459 | 92.504 | 102.846 | 56.478 | 70.295 |
| 1804 | MD3EC | 860422 | 0.032 | 0.424 | -0.014 | 0.016 | -0.007 | 5.103 | 4.699 | 0.319 | 0.107 |
| | | | 1.676 | 11.950 | -0.311 | 0.163 | -0.088 | 82.161 | 48.872 | 17.645 | 4.668 |
| 1852 | MD3EC | 860513 | 0.005 | 0.307 | -0.011 | 0.030 | -0.020 | 0.490 | 0.941 | 0.199 | 0.165 |
| | | | 0.244 | 8.646 | -0.237 | 0.316 | -0.251 | 7.893 | 9.791 | 11.050 | 7.188 |
| 1879 | MD3EC | 860520 | 0.010 | 1.070 | -0.016 | -0.012 | -0.007 | 1.120 | 1.758 | 0.313 | 0.661 |
| | | | 0.532 | 30.185 | -0.340 | -0.122 | -0.090 | 18.029 | 18.279 | 17.367 | 28.739 |
| 1899 | MD3EC | 860527 | 0.036 | 1.428 | -0.007 | -0.023 | -0.013 | 4.666 | 9.002 | 0.903 | 0.700 |
| | | | 1.875 | 40.277 | -0.159 | -0.241 | -0.160 | 75.118 | 93.619 | 50.033 | 30.433 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1555 | MD3EC | 860114 | 0.051 | 0.050 | 0.023 |
| | | | 1.306 | 1.245 | 0.947 |
| 1587 | MD3EC | 860121 | 0.019 | -0.037 | 0.056 |
| | | | 0.479 | -0.931 | 2.287 |
| 1607 | MD3EC | 860128 | 0.022 | 0.052 | 0.016 |
| | | | 0.562 | 1.286 | 0.665 |
| 1659 | MD3EC | 860218 | 0.026 | 0.103 | 0.027 |
| | | | 0.662 | 2.566 | 1.112 |
| 1680 | MD3EC | 860211 | 0.009 | -0.072 | -0.007 |
| | | | 0.220 | -1.789 | -0.298 |
| 1681 | MD3EC | 860225 | 0.004 | 0.284 | 0.041 |
| | | | 0.115 | 7.078 | 1.699 |
| 1683 | MD3EC | 860204 | 0.041 | 0.094 | 0.088 |
| | | | 1.056 | 2.346 | 3.629 |
| 1709 | MD3EC | 860311 | 0.069 | 0.062 | 0.050 |
| | | | 1.762 | 1.540 | 2.054 |
| 1762 | MD3EC | 860401 | 0.118 | 0.469 | 0.149 |
| | | | 3.019 | 11.695 | 6.129 |
| 1770 | MD3EC | 860408 | 0.167 | 1.343 | 0.283 |
| | | | 4.283 | 33.513 | 11.635 |
| 1796 | MD3EC | 860414 | 0.201 | 0.810 | 0.271 |
| | | | 5.151 | 20.221 | 11.154 |
| 1804 | MD3EC | 860422 | 0.065 | 0.140 | 0.036 |
| | | | 1.675 | 3.490 | 1.470 |
| 1852 | MD3EC | 860513 | 0.020 | 0.043 | 0.022 |
| | | | 0.515 | 1.075 | 0.904 |
| 1879 | MD3EC | 860520 | 0.130 | 0.086 | 0.056 |
| | | | 3.335 | 2.139 | 2.291 |
| 1899 | MD3EC | 860527 | 0.088 | 0.248 | |
| | | | 2.239 | 6.196 | |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1948 | MD3EC | 860617 | | 827 | 860624 | 847 | 860702 | 1 | 0.17 | 276.00 | 79.1 |
| 1963 | MD3EC | 860624 | | 900 | 860701 | 850 | 860711 | 4 | 0.66 | 1079.00 | 26.9 |
| 1969 | MD3EC | 860701 | | 900 | 860708 | 820 | 860714 | 2 | 0.18 | 346.00 | 52.5 |
| 2010 | MD3EC | 860708 | | 820 | 860715 | 820 | 860729 | 3 | 0.55 | 921.00 | 26.8 |
| 2011 | MD3EC | 860715 | | 820 | 860722 | 840 | 860729 | 2 | 0.52 | 942.00 | 69.5 |
| 2059 | MD3EC | 860729 | | 835 | 860805 | 825 | 860815 | 4 | 0.76 | 1298.00 | 71.4 |
| 2066 | MD3EC | 860805 | | 825 | 860812 | 1030 | 860819 | 3 | 0.42 | 680.00 | 62.7 |
| 2105 | MD3EC | 860819 | | 825 | 860826 | 830 | 860903 | 3 | 2.30 | 3984.00 | 13.7 |
| 2125 | MD3EC | 860826 | | 859 | 860902 | 940 | 860912 | 4 | 1.24 | 1924.00 | 26.3 |
| 2141 | MD3EC | 860902 | | 940 | 860909 | 843 | 860917 | 5 | 1.37 | 2344.00 | 32.2 |
| 2195 | MD3EC | 860812 | | 1030 | 860819 | 825 | 861003 | 2 | 2.21 | 3876.00 | 14.1 |
| 2242 | MD3EC | 861007 | | 835 | 861014 | 935 | 861027 | 4 | 1.38 | 2474.00 | 9.5 |
| 2285 | MD3EC | 861021 | | 828 | 861028 | 932 | 861106 | 2 | 1.33 | 2273.00 | 8.5 |
| 2293 | MD3EC | 861028 | | 932 | 861104 | 940 | 861110 | 2 | 0.13 | 218.00 | 47.8 |
| 2314 | MD3EC | 861104 | | 940 | 861111 | 930 | 861121 | 5 | 0.94 | 1770.00 | 53.6 |
| 2347 | MD3EC | 861111 | | 930 | 861118 | 930 | 861129 | 3 | 0.47 | 743.00 | 21.7 |
| 2362 | MD3EC | 861118 | | 940 | 861124 | 930 | 861203 | 3 | 0.62 | 1175.00 | 38.6 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2406 | MD3EC | 861202 | | 1107 | 861209 | 1130 | 861219 | 3 | 1.85 | 3214.00 | 9.1 |
| 2433 | MD3EC | 861209 | | 1130 | 861216 | 935 | 870105 | 4 | 1.07 | 1881.00 | 15.6 |
| 2434 | MD3EC | 861216 | | 950 | 861223 | 937 | 870105 | 1 | 0.40 | 692.00 | 43.4 |
| 2448 | MD3EC | 861223 | | 937 | 861230 | 943 | 870106 | 1 | 3.28 | 5444.00 | 6.4 |
| 2487 | MD3EC | 861230 | | 943 | 870106 | 930 | 870114 | 2 | 1.42 | 2415.00 | 15.4 |
| 2521 | MD3EC | 861124 | | 930 | 861202 | 1107 | 870122 | 2 | 0.50 | 932.00 | 29.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1948 | MD3EC | 860617 | 3.82 | 3 | | 1.07 | 0.96 | 120.0 | 3.84 | 166.1 | 74.6 |
| 1963 | MD3EC | 860624 | 4.27 | 3 | | 1.01 | 1.06 | 500.0 | 4.26 | 62.0 | 24.9 |
| 1969 | MD3EC | 860701 | 3.97 | | | 1.07 | 1.02 | 190.0 | 3.99 | 111.0 | 47.3 |
| 2010 | MD3EC | 860708 | 4.29 | | | 1.06 | 1.04 | 405.0 | 4.29 | 58.3 | 24.9 |
| 2011 | MD3EC | 860715 | 3.91 | 3 | | 1.03 | 0.98 | 500.0 | 3.91 | 134.8 | 66.9 |
| 2059 | MD3EC | 860729 | 3.82 | | | 1.05 | 1.00 | 475.0 | 3.84 | 156.8 | 67.2 |
| 2066 | MD3EC | 860805 | 3.89 | 3 | | 1.05 | 1.02 | 330.0 | 3.91 | 138.3 | 57.4 |
| 2105 | MD3EC | 860819 | | 3 | 31 | 0.83 | 1.00 | 550.0 | 5.60 | | 13.4 |
| 2125 | MD3EC | 860826 | 6.56 | 34 | 3199 | 9999.00 | 9999.00 | 525.0 | 6.37 | | |
| 2141 | MD3EC | 860902 | 4.13 | | | 1.04 | 1.11 | 475.0 | 4.18 | 71.4 | 27.9 |
| 2195 | MD3EC | 860812 | 4.77 | | | 1.04 | 1.12 | 510.0 | 4.80 | 21.8 | 11.3 |
| 2242 | MD3EC | 861007 | 4.79 | | | 1.00 | 1.28 | 525.0 | 4.73 | 25.0 | 8.4 |
| 2285 | MD3EC | 861021 | 4.91 | | 34 | 1.11 | 1.22 | 530.0 | 4.85 | 19.5 | 7.3 |
| 2293 | MD3EC | 861028 | 4.27 | | | 1.02 | 1.04 | 130.0 | 4.30 | 56.1 | 45.9 |
| 2314 | MD3EC | 861104 | 4.05 | | | 0.99 | 1.02 | 500.0 | 4.03 | 99.4 | 51.4 |
| 2347 | MD3EC | 861111 | 4.35 | 3 | | 1.12 | 1.07 | 300.0 | 4.38 | 51.8 | 18.3 |
| 2362 | MD3EC | 861118 | 4.09 | | | 1.02 | 1.03 | 515.0 | 4.16 | 74.9 | 35.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2406 | MD3EC | 861202 | 4.77 | | | 1.06 | 1.16 | 525.0 | 4.80 | 21.2 | 8.4 |
| 2433 | MD3EC | 861209 | 4.40 | | | 1.11 | 1.14 | 525.0 | 4.45 | 40.6 | 15.7 |
| 2434 | MD3EC | 861216 | 3.99 | | | 1.10 | 1.02 | 250.0 | 4.05 | 98.5 | 40.4 |
| 2448 | MD3EC | 861223 | 4.83 | | | 1.09 | 1.18 | 525.0 | 4.92 | 15.3 | 6.8 |
| 2487 | MD3EC | 861230 | 4.85 | | | 1.11 | 1.09 | 500.0 | 4.86 | 18.8 | 15.3 |
| 2521 | MD3EC | 861124 | 4.64 | | | 1.02 | 1.04 | 475.0 | 4.56 | 32.2 | 28.0 |

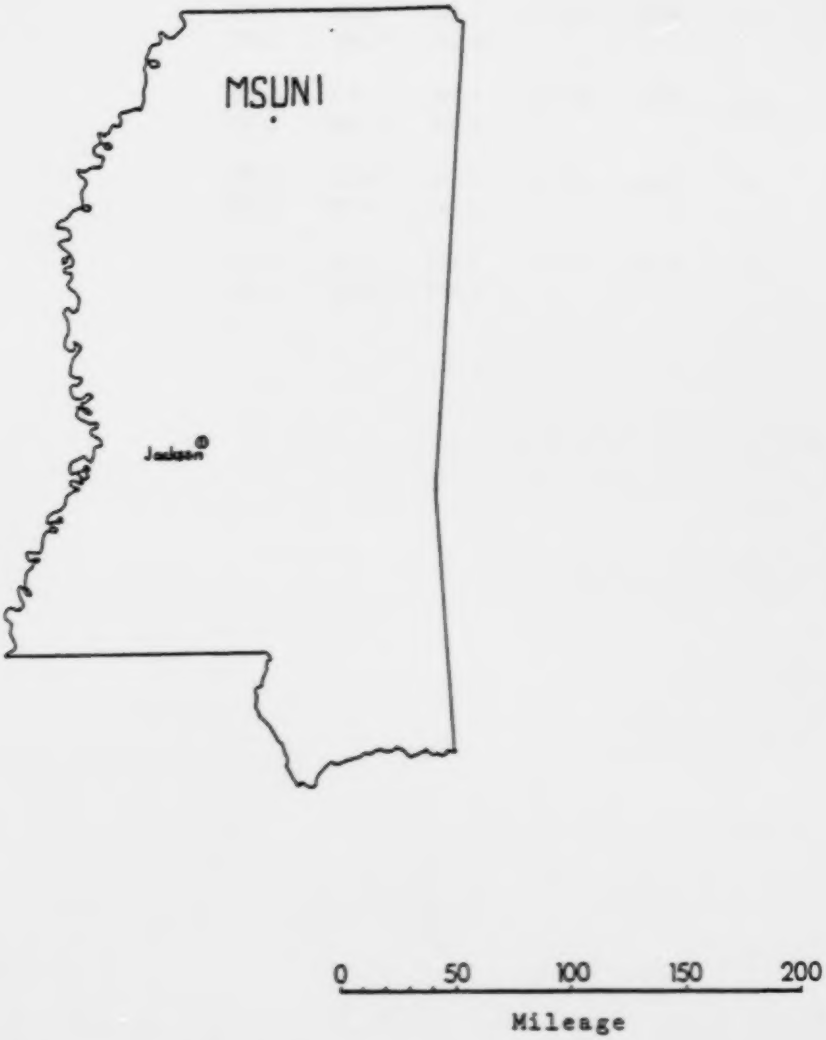
| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1948 | MD3EC | 860617 | 0.033 | 0.613 | -0.002 | 0.032 | -0.020 | 4.205 | 6.631 | 0.707 | 0.265 |
| | | | 1.715 | 17.273 | -0.038 | 0.339 | -0.248 | 67.701 | 68.957 | 39.142 | 11.509 |
| 1963 | MD3EC | 860624 | -0.011 | 0.123 | -0.007 | 0.037 | 0.056 | 1.276 | 2.520 | 0.218 | 0.075 |
| | | | -0.563 | 3.477 | -0.141 | 0.387 | 0.699 | 20.550 | 26.208 | 12.079 | 3.249 |
| 1969 | MD3EC | 860701 | 0.027 | 0.383 | -0.005 | 0.125 | -0.014 | 2.903 | 3.897 | 0.238 | 0.305 |
| | | | 1.437 | 10.798 | -0.112 | 1.308 | -0.179 | 46.737 | 40.528 | 13.170 | 13.253 |
| 2010 | MD3EC | 860708 | 0.023 | 0.263 | -0.001 | 0.043 | -0.010 | 1.201 | 2.570 | 0.188 | 0.164 |
| | | | 1.211 | 7.425 | -0.022 | 0.452 | -0.129 | 19.335 | 26.725 | 10.429 | 7.123 |
| 2011 | MD3EC | 860715 | 0.032 | 1.992 | -0.001 | -0.030 | -0.010 | 3.125 | 5.694 | 0.458 | 1.073 |
| | | | 1.702 | 56.186 | -0.020 | -0.310 | -0.125 | 50.311 | 59.218 | 25.373 | 46.666 |
| 2059 | MD3EC | 860729 | 0.032 | 0.263 | -0.010 | -0.061 | -0.013 | 2.912 | 6.417 | 0.394 | 0.115 |
| | | | 1.693 | 7.422 | -0.207 | -0.636 | -0.160 | 46.881 | 66.738 | 21.842 | 4.991 |
| 2066 | MD3EC | 860805 | 0.027 | 0.729 | -0.008 | -0.053 | -0.016 | 3.643 | 4.462 | 0.245 | 0.355 |
| | | | 1.425 | 20.566 | -0.174 | -0.552 | -0.200 | 58.657 | 46.410 | 13.586 | 15.451 |
| 2105 | MD3EC | 860819 | 0.010 | 1.781 | -0.005 | 0.108 | -0.015 | 0.543 | 1.078 | 0.581 | 1.032 |
| | | | 0.549 | 50.228 | -0.109 | 1.129 | -0.189 | 8.736 | 11.214 | 32.175 | 44.889 |
| 2125 | MD3EC | 860826 | | | | | | | | | |
| 2141 | MD3EC | 860902 | 0.012 | 0.134 | 0.010 | 0.049 | -0.004 | 1.876 | 2.549 | 0.263 | 0.066 |
| | | | 0.650 | 3.773 | 0.221 | 0.510 | -0.046 | 30.205 | 26.512 | 14.545 | 2.870 |
| 2195 | MD3EC | 860812 | 0.005 | 1.370 | -0.009 | 0.024 | -0.016 | 0.058 | 1.066 | -0.001 | 0.789 |
| | | | 0.272 | 38.633 | -0.198 | 0.253 | -0.197 | 0.928 | 11.089 | -0.067 | 34.324 |
| 2242 | MD3EC | 861007 | 0.009 | 0.402 | 0.000 | 0.044 | 0.000 | 0.553 | 0.884 | 0.091 | 0.265 |
| | | | 0.484 | 11.343 | 0.000 | 0.459 | 0.000 | 8.901 | 9.191 | 5.036 | 11.523 |
| 2285 | MD3EC | 861021 | 0.007 | 0.546 | -0.009 | 0.051 | -0.004 | 0.348 | 0.738 | 0.054 | 0.322 |
| | | | 0.371 | 15.385 | -0.204 | 0.539 | -0.047 | 5.603 | 7.671 | 3.003 | 14.014 |
| 2293 | MD3EC | 861028 | 0.023 | 6.471 | -0.008 | -0.045 | 0.023 | 0.754 | 3.066 | -0.007 | 3.645 |
| | | | 1.201 | 182.487 | -0.166 | -0.477 | 0.291 | 12.141 | 31.885 | -0.372 | 158.571 |
| 2314 | MD3EC | 861104 | 0.019 | 1.496 | -0.014 | -0.024 | -0.030 | 3.708 | 4.120 | 0.487 | 1.290 |
| | | | 0.983 | 42.201 | -0.308 | -0.257 | -0.375 | 59.695 | 42.849 | 26.960 | 56.111 |
| 2347 | MD3EC | 861111 | -0.003 | 0.350 | 0.027 | 0.066 | -0.014 | 0.824 | 1.633 | 0.076 | 0.147 |
| | | | -0.149 | 9.868 | 0.591 | 0.689 | -0.172 | 13.260 | 16.983 | 4.189 | 6.373 |
| 2362 | MD3EC | 861118 | -0.003 | 1.228 | -0.008 | 0.082 | -0.012 | 1.899 | 2.747 | 0.246 | 0.693 |
| | | | -0.157 | 34.642 | -0.164 | 0.861 | -0.152 | 30.566 | 28.565 | 13.613 | 30.161 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2406 | MD3EC | 861202 | -0.004 | 0.641 | -0.005 | 0.057 | -0.037 | 0.356 | 0.695 | 0.070 | 0.332 |
| | | | -0.217 | 18.069 | -0.103 | 0.602 | -0.457 | 5.737 | 7.229 | 3.880 | 14.446 |
| 2433 | MD3EC | 861209 | -0.005 | 0.505 | -0.010 | 0.102 | 0.223 | 0.682 | 1.460 | 0.089 | 0.262 |
| | | | -0.287 | 14.242 | -0.221 | 1.066 | 2.788 | 10.984 | 15.183 | 4.938 | 11.400 |
| 2434 | MD3EC | 861216 | -0.006 | 0.615 | -0.010 | 0.106 | -0.058 | 2.532 | 2.923 | 0.092 | 0.304 |
| | | | -0.290 | 17.338 | -0.221 | 1.109 | -0.722 | 40.767 | 30.400 | 5.081 | 13.212 |
| 2448 | MD3EC | 861223 | -0.007 | 0.568 | -0.010 | -0.032 | 0.127 | 0.395 | 0.585 | 0.093 | 0.296 |
| | | | -0.348 | 16.008 | -0.220 | -0.333 | 1.593 | 6.362 | 6.082 | 5.163 | 12.888 |
| 2487 | MD3EC | 861230 | -0.003 | 2.742 | -0.006 | 0.040 | -0.017 | 0.474 | 0.780 | -0.006 | 1.406 |
| | | | -0.176 | 77.318 | -0.128 | 0.423 | -0.208 | 7.624 | 8.117 | -0.323 | 61.179 |
| 2521 | MD3EC | 861124 | -0.002 | 3.863 | -0.018 | 0.035 | 0.026 | 1.180 | 1.680 | 0.158 | 2.208 |
| | | | -0.103 | 108.923 | -0.394 | 0.372 | 0.321 | 19.004 | 17.476 | 8.731 | 96.050 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1948 | MD3EC | 860617 | 0.041 | 0.215 | 0.054 |
| | | | 1.060 | 5.357 | 2.202 |
| 1963 | MD3EC | 860624 | 0.035 | 0.103 | 0.019 |
| | | | 0.908 | 2.560 | 0.778 |
| 1969 | MD3EC | 860701 | 0.014 | 0.088 | 0.028 |
| | | | 0.371 | 2.183 | 1.131 |
| 2010 | MD3EC | 860708 | 0.025 | 0.124 | 0.035 |
| | | | 0.632 | 3.094 | 1.432 |
| 2011 | MD3EC | 860715 | 0.061 | 0.225 | 0.151 |
| | | | 1.556 | 5.621 | 6.204 |
| 2059 | MD3EC | 860729 | 0.024 | 0.146 | 0.023 |
| | | | 0.609 | 3.642 | 0.944 |
| 2066 | MD3EC | 860805 | 0.025 | 0.174 | 0.055 |
| | | | 0.630 | 4.346 | 2.267 |
| 2105 | MD3EC | 860819 | 0.256 | 0.089 | 0.153 |
| | | | 6.557 | 2.226 | 6.298 |
| 2125 | MD3EC | 860826 | | | |
| 2141 | MD3EC | 860902 | 0.004 | 0.038 | 0.009 |
| | | | 0.097 | 0.942 | 0.381 |
| 2195 | MD3EC | 860812 | 0.007 | 0.063 | 0.088 |
| | | | 0.187 | 1.564 | 3.624 |
| 2242 | MD3EC | 861007 | 0.021 | 0.056 | 0.027 |
| | | | 0.534 | 1.395 | 1.102 |
| 2285 | MD3EC | 861021 | 0.006 | 0.015 | 0.034 |
| | | | 0.158 | 0.374 | 1.378 |
| 2293 | MD3EC | 861028 | 0.123 | 0.161 | 0.420 |
| | | | 3.153 | 4.006 | 17.273 |
| 2314 | MD3EC | 861104 | 0.042 | 0.090 | 0.106 |
| | | | 1.084 | 2.252 | 4.363 |
| 2347 | MD3EC | 861111 | 0.001 | -0.016 | 0.018 |
| | | | 0.013 | -0.393 | 0.739 |
| 2362 | MD3EC | 861118 | 0.034 | 0.059 | 0.082 |
| | | | 0.065 | 1.474 | 3.366 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 2406 | MD3EC | 861202 | 0.016 | -0.017 | 0.039 |
| | | | 0.421 | -0.412 | 1.596 |
| 2433 | MD3EC | 861209 | 0.010 | 0.020 | 0.031 |
| | | | 0.266 | 0.491 | 1.282 |
| 2434 | MD3EC | 861216 | 0.011 | 0.026 | 0.035 |
| | | | 0.281 | 0.646 | 1.427 |
| 2448 | MD3EC | 861223 | 0.019 | -0.017 | 0.033 |
| | | | 0.490 | -0.434 | 1.368 |
| 2487 | MD3EC | 861230 | 0.056 | 0.051 | 0.168 |
| | | | 1.437 | 1.274 | 6.898 |
| 2521 | MD3EC | 861124 | 0.095 | 0.106 | 0.264 |
| | | | 2.420 | 2.641 | 10.842 |

## MISSISSIPPI


MSUN1
Jackson
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

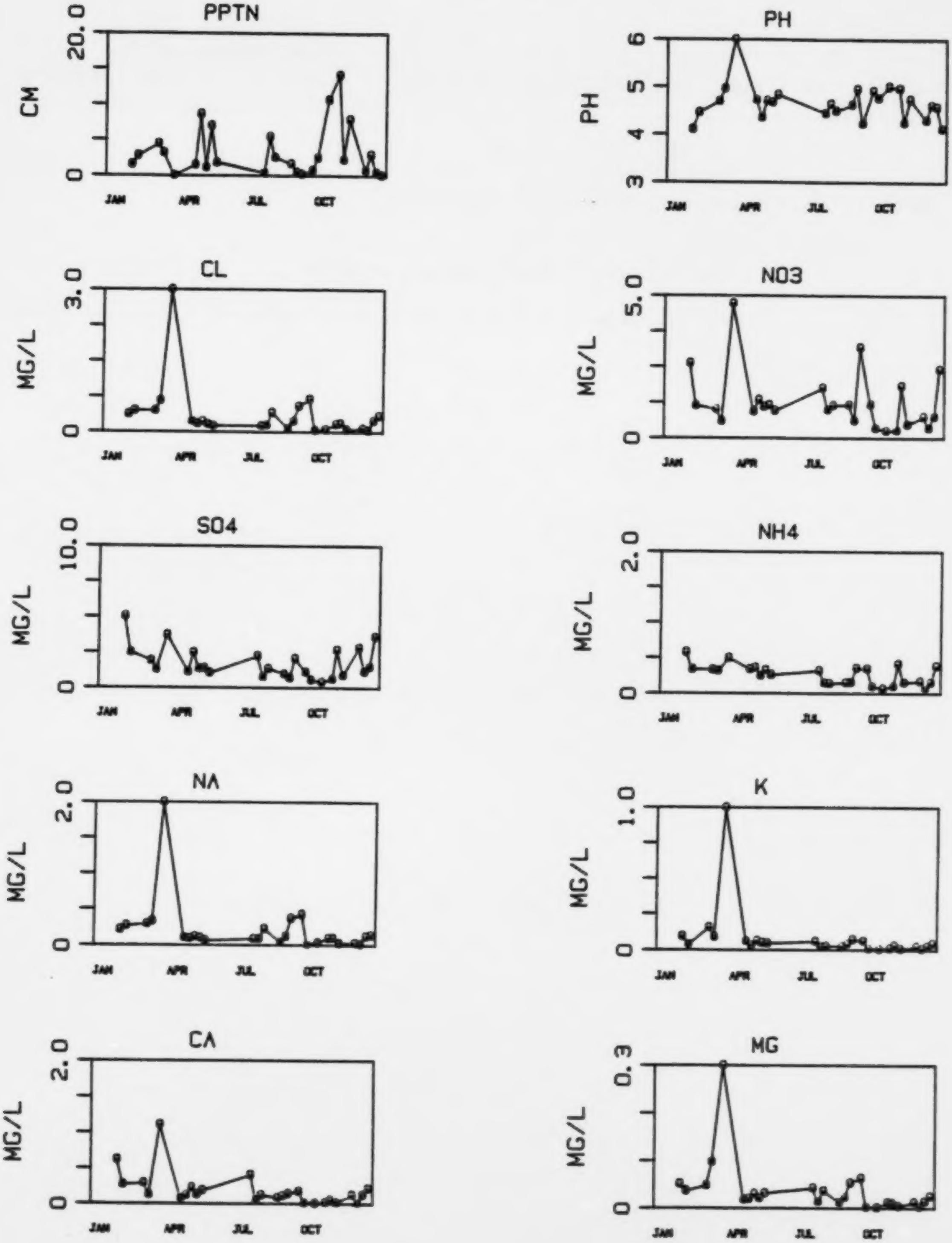
## MISSISSIPPI

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD[1] BEGIN | END | #SAMPLES | %NON-VOID[2] |
|---|---|---|---|---|---|---|---|
| MSUNI | University | University | Lafayette | | | 37 | 81 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)
Site: MSUNI
Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1574 | MSUNI | 860114 | | 900 | 860121 | 900 | 860130 | 1 | | 412.00 | 48.3 |
| 1605 | MSUNI | 860128 | | 900 | 860204 | 820 | 860211 | 1 | | 38.00 | |
| 1625 | MSUNI | 860204 | | 820 | 860212 | 900 | 860221 | 5 | 0.63 | 1040.00 | 50.5 |
| 1645 | MSUNI | 860212 | | 900 | 860218 | 900 | 860227 | 4 | 1.10 | 1876.00 | 24.5 |
| 1711 | MSUNI | 860311 | | 900 | 860318 | 900 | 860327 | 2 | 1.74 | 2668.00 | 19.5 |
| 1747 | MSUNI | 860318 | | 900 | 860325 | 1000 | 860411 | 1 | 1.25 | 1861.00 | 19.3 |
| 1763 | MSUNI | 860401 | | 900 | 860408 | 930 | 860416 | | | 35.00 | |
| 1773 | MSUNI | 860408 | | 930 | 860415 | 1000 | 860423 | 1 | 0.14 | 185.00 | |
| 1823 | MSUNI | 860422 | | 930 | 860429 | 930 | 860508 | 1 | 0.04 | 22.00 | |
| 1830 | MSUNI | 860429 | | 930 | 860506 | 900 | 860513 | 1 | | 1041.00 | 13.7 |
| 1834 | MSUNI | 860506 | | 930 | 860513 | 930 | 860516 | 1 | | 5844.00 | 27.5 |
| 1853 | MSUNI | 860513 | | 930 | 860520 | 930 | 860528 | 1 | 0.45 | 693.00 | 17.2 |
| 1881 | MSUNI | 860520 | | 930 | 860527 | 930 | 860606 | 1 | 2.75 | 4654.00 | 16.8 |
| 1900 | MSUNI | 860527 | | 930 | 860603 | 1030 | 860612 | 1 | | 1247.00 | 12.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1574 | MSUNI | 860114 | 4.41 | 23 | 992133 | 9999.00 | 9999.00 | 390.000 | 4.24 | 66.73 | |
| 1605 | MSUNI | 860128 | | 3 | 3299 | 9999.00 | 9999.00 | 35.000 | 6.29 | | |
| 1625 | MSUNI | 860204 | 4.18 | 3 | | 1.00 | 1.06 | 550.000 | 4.10 | 83.12 | 42.2 |
| 1645 | MSUNI | 860212 | 4.48 | 3 | | 1.00 | 1.09 | 550.000 | 4.45 | 41.26 | 19.9 |
| 1711 | MSUNI | 860311 | 4.86 | | | 0.96 | 1.18 | 550.000 | 4.69 | 27.48 | 13.3 |
| 1747 | MSUNI | 860318 | 4.74 | 3 | | 0.94 | 1.13 | 550.000 | 4.96 | 20.07 | 9.8 |
| 1763 | MSUNI | 860401 | | | 21 | 0.79 | 0.95 | 35.000 | 6.29 | | 80.4 |
| 1773 | MSUNI | 860408 | | 34 | 213399 | 9999.00 | 9999.00 | 180.000 | 5.97 | | |
| 1823 | MSUNI | 860422 | | 3 | 992131 | 9999.00 | 9999.00 | 25.000 | 5.23 | | |
| 1830 | MSUNI | 860429 | 5.55 | | | 0.95 | 1.19 | 420.000 | 4.72 | 24.43 | 10.2 |
| 1834 | MSUNI | 860506 | 4.31 | | | 1.05 | 1.04 | 550.000 | 4.35 | 54.50 | 22.8 |
| 1853 | MSUNI | 860513 | 4.57 | 3 | | 1.00 | 1.08 | 370.000 | 4.70 | 23.60 | 12.1 |
| 1881 | MSUNI | 860520 | 4.60 | 3 | | 0.98 | 1.08 | 550.000 | 4.67 | 25.70 | 12.5 |
| 1900 | MSUNI | 860527 | 4.89 | | 21 | 0.92 | 1.05 | 550.000 | 4.83 | 22.90 | 9.7 |

| ID | STN | BD | F | CL | NO2 | PO4 | BR | NO3 | SO4 | NH4 | NA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l |
| 1574 | MSUNI | 860114 | | | | | | | | | |
| 1605 | MSUNI | 860128 | | | | | | | | | |
| 1625 | MSUNI | 860204 | 0.021 | 0.367 | -0.008 | -0.021 | -0.040 | 2.610 | 4.995 | 0.572 | 0.213 |
| | | | 1.118 | 10.336 | -0.179 | -0.223 | -0.503 | 42.028 | 51.951 | 31.684 | 9.259 |
| 1645 | MSUNI | 860212 | 0.008 | 0.447 | -0.022 | -0.042 | -0.063 | 1.138 | 2.473 | 0.334 | 0.269 |
| | | | 0.427 | 12.609 | -0.483 | -0.446 | -0.784 | 18.324 | 25.717 | 18.484 | 11.706 |
| 1711 | MSUNI | 860311 | 0.013 | 0.448 | -0.012 | 0.042 | -0.068 | 1.007 | 1.881 | 0.327 | 0.289 |
| | | | 0.662 | 12.643 | -0.256 | 0.438 | -0.857 | 16.209 | 19.559 | 18.120 | 12.584 |
| 1747 | MSUNI | 860318 | 0.010 | 0.662 | -0.014 | -0.027 | -0.047 | 0.597 | 1.288 | 0.315 | 0.331 |
| | | | 0.505 | 18.655 | -0.302 | -0.285 | -0.585 | 9.618 | 13.392 | 17.426 | 14.393 |
| 1763 | MSUNI | 860401 | 0.104 | 13.113 | -0.018 | -0.293 | -0.047 | 4.724 | 3.718 | 0.492 | 2.178 |
| | | | 5.471 | 369.789 | -0.401 | -3.078 | -0.585 | 76.060 | 38.667 | 27.254 | 94.754 |
| 1773 | MSUNI | 860408 | | | | | | | | | |
| 1823 | MSUNI | 860422 | | | | | | | | | |
| 1830 | MSUNI | 860429 | 0.006 | 0.225 | -0.006 | 0.032 | 0.043 | 0.932 | 1.110 | 0.336 | 0.104 |
| | | | 0.318 | 6.344 | -0.127 | 0.335 | 0.537 | 15.009 | 11.540 | 18.632 | 4.519 |
| 1834 | MSUNI | 860506 | 0.015 | 0.172 | 0.014 | 0.032 | -0.011 | 1.337 | 2.472 | 0.357 | 0.090 |
| | | | 0.776 | 4.855 | 0.306 | 0.338 | -0.142 | 21.524 | 25.709 | 19.784 | 3.903 |
| 1853 | MSUNI | 860513 | 0.007 | 0.226 | -0.011 | 0.051 | -0.020 | 1.105 | 1.329 | 0.245 | 0.118 |
| | | | 0.362 | 6.377 | -0.240 | 0.532 | -0.253 | 17.794 | 13.827 | 13.584 | 5.143 |
| 1881 | MSUNI | 860520 | 0.010 | 0.158 | -0.015 | -0.012 | -0.006 | 1.156 | 1.360 | 0.324 | 0.099 |
| | | | 0.508 | 4.454 | -0.334 | -0.126 | -0.080 | 18.610 | 14.142 | 17.949 | 4.310 |
| 1900 | MSUNI | 860527 | 0.009 | 0.122 | -0.008 | -0.023 | -0.013 | 0.961 | 1.039 | 0.256 | 0.062 |
| | | | 0.460 | 3.454 | -0.163 | -0.246 | -0.160 | 15.467 | 10.807 | 14.207 | 2.709 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1574 | MSUNI | 860114 | | | |
| 1605 | MSUNI | 860128 | | | |
| 1625 | MSUNI | 860204 | 0.092<br>2.356 | 0.618<br>15.422 | 0.051<br>2.080 |
| 1645 | MSUNI | 860212 | 0.037<br>0.941 | 0.269<br>6.723 | 0.036<br>1.483 |
| 1711 | MSUNI | 860311 | 0.155<br>3.953 | 0.286<br>7.143 | 0.048<br>1.969 |
| 1747 | MSUNI | 860318 | 0.089<br>2.285 | 0.127<br>3.173 | 0.097<br>4.004 |
| 1763 | MSUNI | 860401 | 1.320<br>33.763 | 1.107<br>27.607 | 5.512<br>226.759 |
| 1773 | MSUNI | 860408 | | | |
| 1823 | MSUNI | 860422 | | | |
| 1830 | MSUNI | 860429 | 0.060<br>1.523 | 0.072<br>1.804 | 0.018<br>0.740 |
| 1834 | MSUNI | 860506 | 0.029<br>0.736 | 0.122<br>3.045 | 0.020<br>0.808 |
| 1853 | MSUNI | 860513 | 0.063<br>1.614 | 0.226<br>5.632 | 0.030<br>1.230 |
| 1881 | MSUNI | 860520 | 0.047<br>1.213 | 0.129<br>3.211 | 0.022<br>0.885 |
| 1900 | MSUNI | 860527 | 0.045<br>1.150 | 0.187<br>4.656 | 0.031<br>1.292 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1918 | MSUNI | 860603 |  | 1030 | 860610 | 1000 | 860617 |  |  | 9956.00 | 11.6 |
| 1956 | MSUNI | 860624 |  | 930 | 860701 | 930 | 860708 |  |  | 998.00 | 15.2 |
| 2035 | MSUNI | 860722 |  | 1000 | 860729 | 1030 | 860807 | 1 | 0.05 | 87.00 |  |
| 2044 | MSUNI | 860729 |  | 1030 | 860805 | 930 | 860808 | 1 | 0.15 | 277.00 | 22.5 |
| 2070 | MSUNI | 860805 |  | 930 | 860812 | 900 | 860819 | 4 | 2.13 | 3736.00 | 9.9 |
| 2088 | MSUNI | 860812 |  | 900 | 860819 | 930 | 860827 | 3 | 1.01 | 1748.00 | 17.9 |
| 2150 | MSUNI | 860902 |  | 915 | 860909 | 930 | 860919 | 3 | 0.65 | 1203.00 | 13.9 |
| 2154 | MSUNI | 860909 |  | 930 | 860916 | 930 | 860922 | 2 | 0.20 | 363.00 | 8.3 |
| 2169 | MSUNI | 860826 |  | 930 | 860902 | 915 | 860925 | 2 | 0.35 |  |  |
| 2196 | MSUNI | 860916 |  | 930 | 860923 | 930 | 861003 | 4 | 0.09 | 158.00 |  |
| 2209 | MSUNI | 860923 |  |  | 860930 |  | 861009 |  |  | 13.00 |  |
| 2214 | MSUNI | 860930 |  | 930 | 861007 | 930 | 861014 | 2 | 0.30 | 519.00 | 12.2 |
| 2230 | MSUNI | 861007 |  | 930 | 861014 | 930 | 861021 | 2 | 1.00 | 1738.00 | 7.0 |
| 2283 | MSUNI | 861021 |  | 930 | 861028 | 1000 | 861105 | 3 | 4.20 | 7119.00 | 5.7 |
| 2315 | MSUNI | 861104 |  | 1000 | 861110 | 1000 | 861121 | 5 | 5.57 | 9612.00 | 6.6 |
| 2335 | MSUNI | 861110 |  | 1000 | 861118 | 920 | 861125 | 3 | 0.90 | 770.00 | 26.9 |
| 2353 | MSUNI | 861118 |  | 1000 | 861125 | 1000 | 861201 | 4 | 3.10 | 5328.00 | 10.6 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2390 | MSUNI | 861125 |  | 1000 | 861202 | 1000 | 861211 | 2 | 1.10 | 1910.00 | 15.9 |
| 2438 | MSUNI | 861202 |  | 1000 | 861209 | 1000 | 870105 | 3 | 4.40 | 7584.00 | 16.1 |
| 2439 | MSUNI | 861209 |  | 1000 | 861216 | 1000 | 870105 | 1 | 0.30 | 447.00 | 27.6 |
| 2440 | MSUNI | 861216 |  | 1000 | 861223 | 1000 | 870105 | 3 | 1.17 | 2017.00 | 11.1 |
| 2464 | MSUNI | 861223 |  | 1000 | 861230 | 1000 | 870109 | 1 | 0.20 | 325.00 | 16.1 |
| 2475 | MSUNI | 861230 |  | 1000 | 870106 | 1000 | 870112 | 1 | 0.04 | 69.00 |  |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1918 | MSUNI | 860603 | 4.80 | | 34 | 1.00 | 1.08 | 550.0 | 4.64 | 29.0 | 10.7 |
| 1956 | MSUNI | 860624 | 4.75 | | 3234 | 0.99 | 1.14 | 525.0 | 4.69 | 27.4 | 10.8 |
| 2035 | MSUNI | 860722 | | 3 | 3299 | 9999.00 | 9999.00 | 85.0 | 4.23 | | |
| 2044 | MSUNI | 860729 | 4.51 | 3 | | 0.98 | 1.06 | 240.0 | 4.44 | 44.1 | 20.5 |
| 2070 | MSUNI | 860805 | 4.95 | | | 0.96 | 1.24 | 550.0 | 4.64 | 27.6 | 9.4 |
| 2088 | MSUNI | 860812 | 4.50 | | | 1.02 | 1.13 | 550.0 | 4.49 | 39.0 | 15.3 |
| 2150 | MSUNI | 860902 | 4.60 | | | 1.07 | 1.16 | 550.0 | 4.62 | 30.0 | 10.8 |
| 2154 | MSUNI | 860909 | 5.20 | | | 0.96 | 1.23 | 320.0 | 4.95 | 18.1 | 6.3 |
| 2169 | MSUNI | 860826 | | 3 | 99 | 9999.00 | 9999.00 | 50.0 | 4.18 | | |
| 2196 | MSUNI | 860916 | | 3 | | 1.04 | 1.06 | 155.0 | 4.23 | 67.0 | 29.9 |
| 2209 | MSUNI | 860923 | | 3 | 99 | 9999.00 | 9999.00 | 10.0 | 6.22 | | |
| 2214 | MSUNI | 860930 | 5.10 | 3 | | 0.97 | 1.10 | 450.0 | 4.91 | 16.6 | 11.1 |
| 2230 | MSUNI | 861007 | 5.10 | | | 0.81 | 1.62 | 550.0 | 4.76 | 23.0 | 4.9 |
| 2283 | MSUNI | 861021 | 5.02 | | | 1.02 | 1.43 | 550.0 | 5.00 | 15.5 | 3.4 |
| 2315 | MSUNI | 861104 | 5.00 | | | 1.04 | 1.25 | 550.0 | 4.96 | 15.7 | 5.1 |
| 2335 | MSUNI | 861110 | 4.50 | | | 1.06 | 1.05 | 550.0 | 4.25 | 63.1 | 27.3 |
| 2353 | MSUNI | 861118 | 4.75 | | | 1.01 | 1.17 | 550.0 | 4.73 | 25.5 | 8.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2390 | MSUNI | 861125 | 4.60 | 3 | 34 | 1.08 | 1.14 | 550.0 | 4.52 | 36.3 | 12.9 |
| 2438 | MSUNI | 861202 | 4.70 |  | 34 | 1.03 | 1.12 | 550.0 | 4.67 | 29.1 | 12.4 |
| 2439 | MSUNI | 861209 | 4.32 | 3 |  | 1.13 | 1.11 | 420.0 | 4.30 | 56.2 | 22.0 |
| 2440 | MSUNI | 861216 | 4.74 |  |  | 1.19 | 1.27 | 550.0 | 4.60 | 30.0 | 9.2 |
| 2464 | MSUNI | 861223 | 4.62 |  |  | 1.03 | 1.18 | 290.0 | 4.57 | 30.3 | 12.4 |
| 2475 | MSUNI | 861230 |  |  |  | 1.07 | 1.02 | 65.0 | 4.12 |  | 37.5 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1910 | MSUNI | 860603 | 0.008 | 0.104 | -0.012 | -0.024 | -0.008 | 0.767 | 1.002 | 0.154 | 0.061 |
| | | | 0.407 | 2.931 | -0.259 | -0.251 | -0.100 | 12.351 | 10.416 | 8.520 | 2.633 |
| 1956 | MSUNI | 860624 | -0.008 | 0.138 | -0.009 | 0.033 | -0.005 | 1.167 | 1.083 | 0.195 | 0.096 |
| | | | -0.442 | 3.903 | -0.190 | 0.351 | -0.065 | 18.707 | 11.261 | 10.789 | 4.196 |
| 2035 | MSUNI | 860722 | | | | | | | | | |
| 2044 | MSUNI | 860729 | 0.020 | 0.130 | -0.008 | 0.041 | -0.004 | 1.748 | 2.230 | 0.316 | 0.085 |
| | | | 1.031 | 3.652 | -0.181 | 0.430 | -0.056 | 28.147 | 23.188 | 17.530 | 3.714 |
| 2070 | MSUNI | 860805 | 0.011 | 0.147 | -0.007 | -0.049 | -0.017 | 0.994 | 0.780 | 0.146 | 0.090 |
| | | | 0.554 | 4.140 | -0.158 | -0.510 | -0.217 | 16.000 | 8.116 | 8.116 | 3.895 |
| 2088 | MSUNI | 860812 | 0.018 | 0.408 | -0.004 | 0.036 | -0.020 | 1.147 | 1.345 | 0.135 | 0.222 |
| | | | 0.928 | 11.517 | -0.090 | 0.381 | -0.250 | 18.462 | 13.988 | 7.481 | 9.674 |
| 2150 | MSUNI | 860902 | 0.006 | 0.075 | -0.009 | 0.028 | -0.029 | 1.165 | 0.971 | 0.150 | 0.037 |
| | | | 0.315 | 2.109 | -0.193 | 0.292 | -0.362 | 18.751 | 10.099 | 8.296 | 1.621 |
| 2154 | MSUNI | 860909 | 0.011 | 0.234 | -0.008 | 0.026 | -0.029 | 0.611 | 0.689 | 0.156 | 0.123 |
| | | | 0.559 | 6.587 | -0.169 | 0.275 | -0.360 | 9.837 | 7.166 | 8.658 | 5.370 |
| 2169 | MSUNI | 860826 | | | | | | | | | |
| 2196 | MSUNI | 860916 | 0.024 | 0.548 | -0.015 | 0.029 | -0.015 | 3.178 | 2.049 | 0.352 | 0.369 |
| | | | 1.254 | 15.442 | -0.334 | 0.308 | -0.186 | 51.161 | 21.305 | 19.515 | 16.060 |
| 2209 | MSUNI | 860923 | | | | | | | | | |
| 2214 | MSUNI | 860930 | 0.009 | 0.696 | -0.033 | 0.027 | -0.009 | 1.168 | 1.100 | 0.341 | 0.422 |
| | | | 0.490 | 19.626 | -0.710 | 0.289 | -0.112 | 18.805 | 11.436 | 18.872 | 18.344 |
| 2230 | MSUNI | 861007 | 0.007 | 0.038 | 0.000 | 0.028 | 0.000 | 0.348 | 0.558 | 0.096 | 0.014 |
| | | | 0.356 | 1.061 | 0.000 | 0.291 | 0.000 | 5.604 | 5.806 | 5.319 | 0.605 |
| 2283 | MSUNI | 861021 | 0.005 | 0.053 | -0.019 | -0.087 | 0.120 | 0.250 | 0.406 | 0.066 | 0.034 |
| | | | 0.249 | 1.485 | -0.409 | -0.915 | 1.508 | 4.031 | 4.222 | 3.675 | 1.465 |
| 2315 | MSUNI | 861104 | 0.003 | 0.163 | -0.014 | 0.044 | -0.028 | 0.283 | 0.635 | 0.105 | 0.093 |
| | | | 0.136 | 4.609 | -0.300 | 0.463 | -0.349 | 4.548 | 6.601 | 5.812 | 4.048 |
| 2335 | MSUNI | 861110 | 0.011 | 0.184 | 0.026 | 0.043 | -0.012 | 1.827 | 2.660 | 0.412 | 0.097 |
| | | | 0.558 | 5.195 | 0.575 | 0.451 | -0.149 | 29.411 | 27.665 | 22.822 | 4.206 |
| 2353 | MSUNI | 861118 | -0.001 | 0.050 | 0.008 | 0.050 | -0.031 | 0.482 | 0.900 | 0.154 | 0.022 |
| | | | -0.056 | 1.403 | 0.185 | 0.526 | -0.388 | 7.765 | 9.356 | 8.555 | 0.975 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2390 | MSUNI | 861125 | 0.006 | 0.100 | 0.010 | 0.047 | -0.031 | 0.815 | 1.328 | 0.143 | 0.049 |
| | | | 0.307 | 2.013 | 0.227 | 0.493 | -0.393 | 13.123 | 13.812 | 7.943 | 2.124 |
| 2438 | MSUNI | 861202 | -0.006 | 0.788 | -0.010 | -0.032 | 0.125 | 0.689 | 1.193 | 0.171 | 0.451 |
| | | | -0.303 | 22.230 | -0.221 | -0.340 | 1.571 | 11.093 | 12.406 | 9.485 | 19.598 |
| 2439 | MSUNI | 861209 | -0.006 | 0.078 | -0.010 | 0.117 | -0.057 | 0.754 | 2.842 | 0.170 | 0.027 |
| | | | -0.309 | 2.191 | -0.221 | 1.233 | -0.709 | 12.141 | 29.561 | 9.397 | 1.194 |
| 2440 | MSUNI | 861216 | -0.006 | 0.040 | -0.010 | 0.105 | 0.184 | 0.361 | 1.156 | 0.073 | 0.014 |
| | | | -0.315 | 1.122 | -0.220 | 1.100 | 2.303 | 5.812 | 12.018 | 4.059 | 0.624 |
| 2464 | MSUNI | 861223 | -0.009 | 0.240 | -0.009 | -0.040 | -0.010 | 0.767 | 1.498 | 0.159 | 0.123 |
| | | | -0.452 | 6.769 | -0.201 | -0.420 | -0.122 | 12.347 | 15.581 | 8.810 | 5.337 |
| 2475 | MSUNI | 861230 | 0.026 | 0.346 | -0.007 | -0.054 | -0.012 | 2.408 | 3.613 | 0.383 | 0.138 |
| | | | 1.372 | 9.749 | -0.150 | -0.572 | -0.147 | 38.771 | 37.574 | 21.207 | 5.985 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1918 | MSUNI | 860603 | 0.021 | 0.028 | 0.008 |
| | | | 0.550 | 0.687 | 0.347 |
| 1956 | MSUNI | 860624 | 0.094 | 0.137 | 0.029 |
| | | | 2.417 | 3.427 | 1.208 |
| 2035 | MSUNI | 860722 | | | |
| 2044 | MSUNI | 860729 | 0.059 | 0.402 | 0.042 |
| | | | 1.505 | 10.026 | 1.732 |
| 2070 | MSUNI | 860805 | 0.022 | 0.045 | 0.014 |
| | | | 0.561 | 1.111 | 0.561 |
| 2088 | MSUNI | 860812 | 0.025 | 0.119 | 0.036 |
| | | | 0.645 | 2.976 | 1.491 |
| 2150 | MSUNI | 860902 | 0.023 | 0.085 | 0.012 |
| | | | 0.595 | 2.110 | 0.491 |
| 2154 | MSUNI | 860909 | 0.040 | 0.111 | 0.023 |
| | | | 1.022 | 2.759 | 0.960 |
| 2169 | MSUNI | 860826 | | | |
| 2196 | MSUNI | 860916 | 0.072 | 0.142 | 0.053 |
| | | | 1.840 | 3.537 | 2.186 |
| 2209 | MSUNI | 860923 | | | |
| 2214 | MSUNI | 860930 | 0.060 | 0.172 | 0.063 |
| | | | 1.543 | 4.288 | 2.589 |
| 2230 | MSUNI | 861007 | 0.008 | 0.010 | 0.002 |
| | | | 0.208 | 0.254 | 0.095 |
| 2283 | MSUNI | 861021 | 0.005 | 0.003 | 0.001 |
| | | | 0.127 | 0.063 | 0.042 |
| 2315 | MSUNI | 861104 | 0.010 | 0.018 | 0.012 |
| | | | 0.256 | 0.458 | 0.485 |
| 2335 | MSUNI | 861110 | 0.031 | 0.056 | 0.011 |
| | | | 0.790 | 1.402 | 0.438 |
| 2353 | MSUNI | 861118 | 0.007 | 0.018 | 0.004 |
| | | | 0.178 | 0.459 | 0.167 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 2390 | MSUNI | 861125 | 0.041 | 0.016 | 0.006 |
| | | | 1.037 | 0.394 | 0.244 |
| 2438 | MSUNI | 861202 | 0.034 | 0.049 | 0.052 |
| | | | 0.870 | 1.226 | 2.125 |
| 2439 | MSUNI | 861209 | 0.024 | 0.125 | 0.012 |
| | | | 0.611 | 3.123 | 0.509 |
| 2440 | MSUNI | 861216 | 0.009 | 0.017 | 0.003 |
| | | | 0.219 | 0.414 | 0.123 |
| 2464 | MSUNI | 861223 | 0.025 | 0.129 | 0.014 |
| | | | 0.631 | 3.219 | 0.585 |
| 2475 | MSUNI | 861230 | 0.044 | 0.217 | 0.026 |
| | | | 1.117 | 5.417 | 1.056 |

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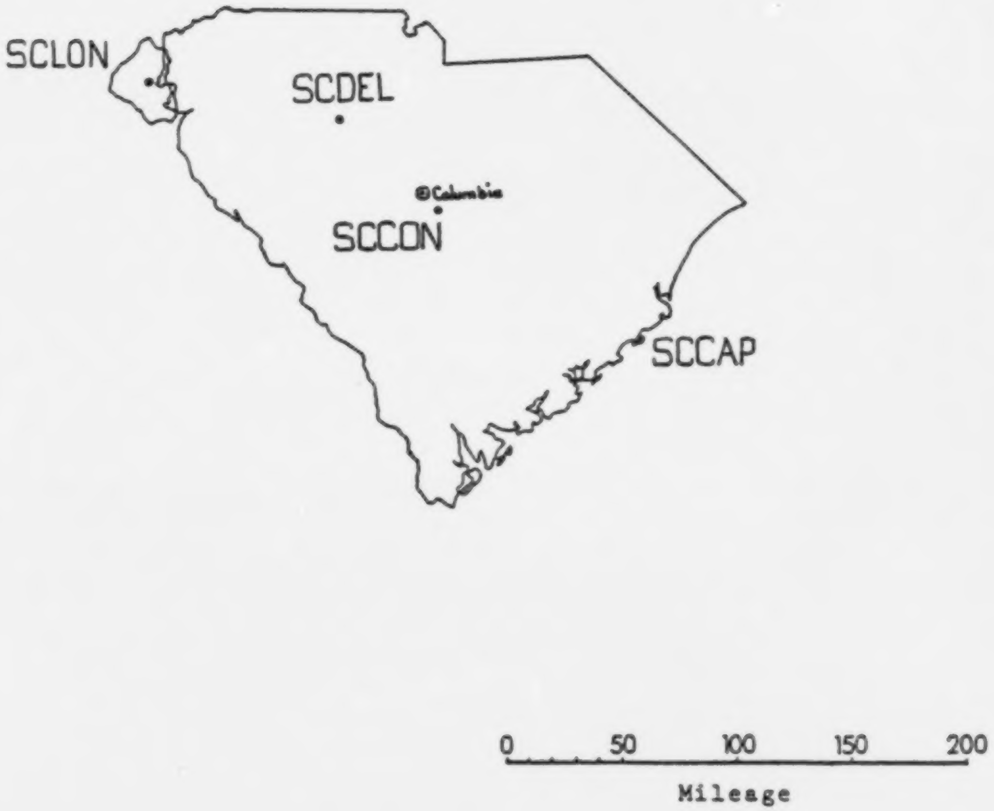
# SOUTH CAROLINA


SCLON
SCDEL
Columbia
SCCON
SCCAP
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

## SOUTH CAROLINA

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD(1) | | #SAMPLES | %NON-VOID(2) |
|---|---|---|---|---|---|---|---|
| | | | | BEGIN | END | | |
| SCCAP | Cape Romain | Mt Pleasant | Charleston | | | 50 | 92 |
| SCCON | Congaree Swamp | Hopkins | Richland | | | 37 | 81 |
| SCDEL | Delta | Whitmore | Union | | | 36 | 100 |
| SCLON | Lng Crk Fire Twr | Walhalla | Oconee | | | 32 | 91 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)
Site: SCCAP
Data Plots, JAN '86 - DEC '86

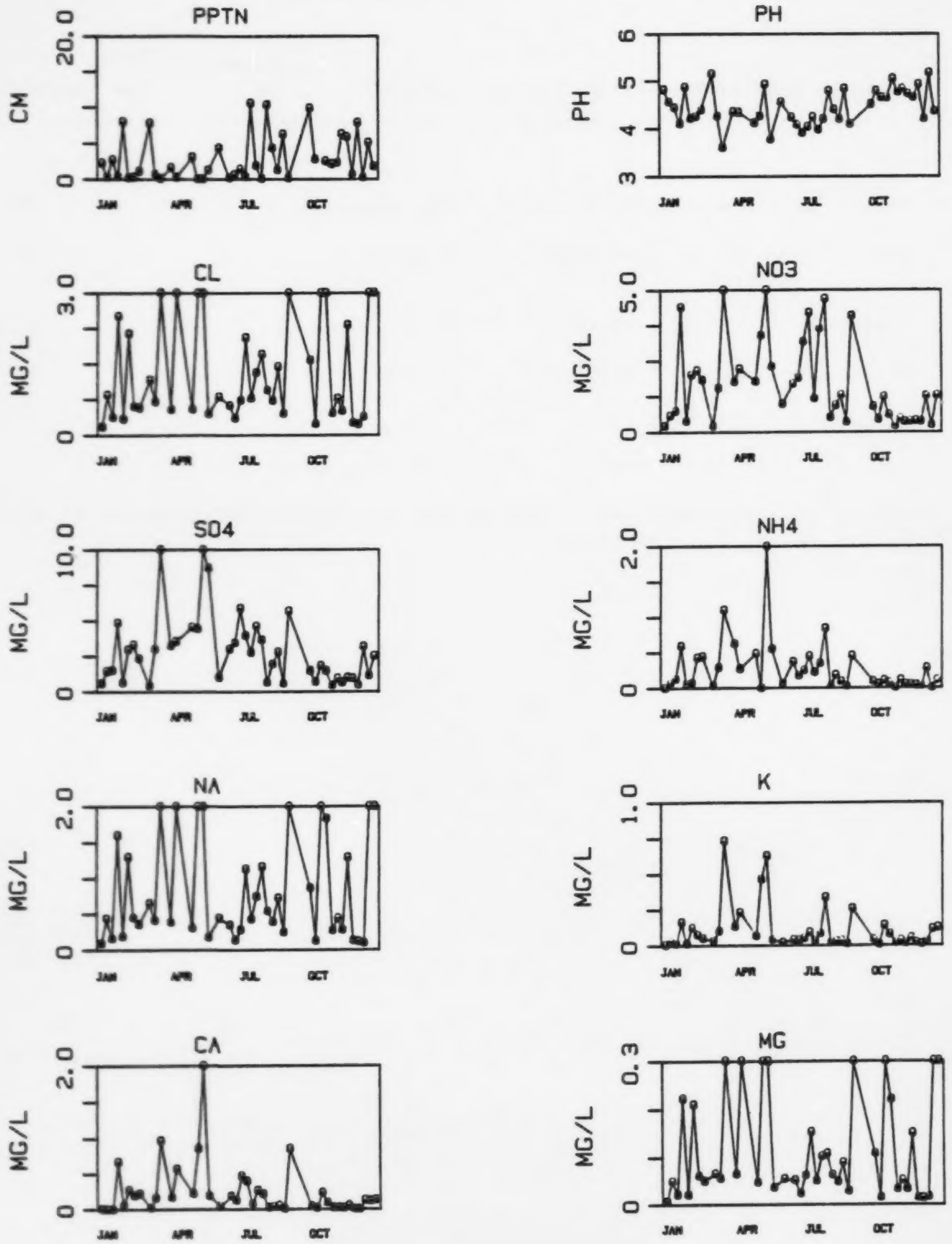


Figure 2-1 (continued)

Site: SCCON

Data Plots, JAN '86 - DEC '86

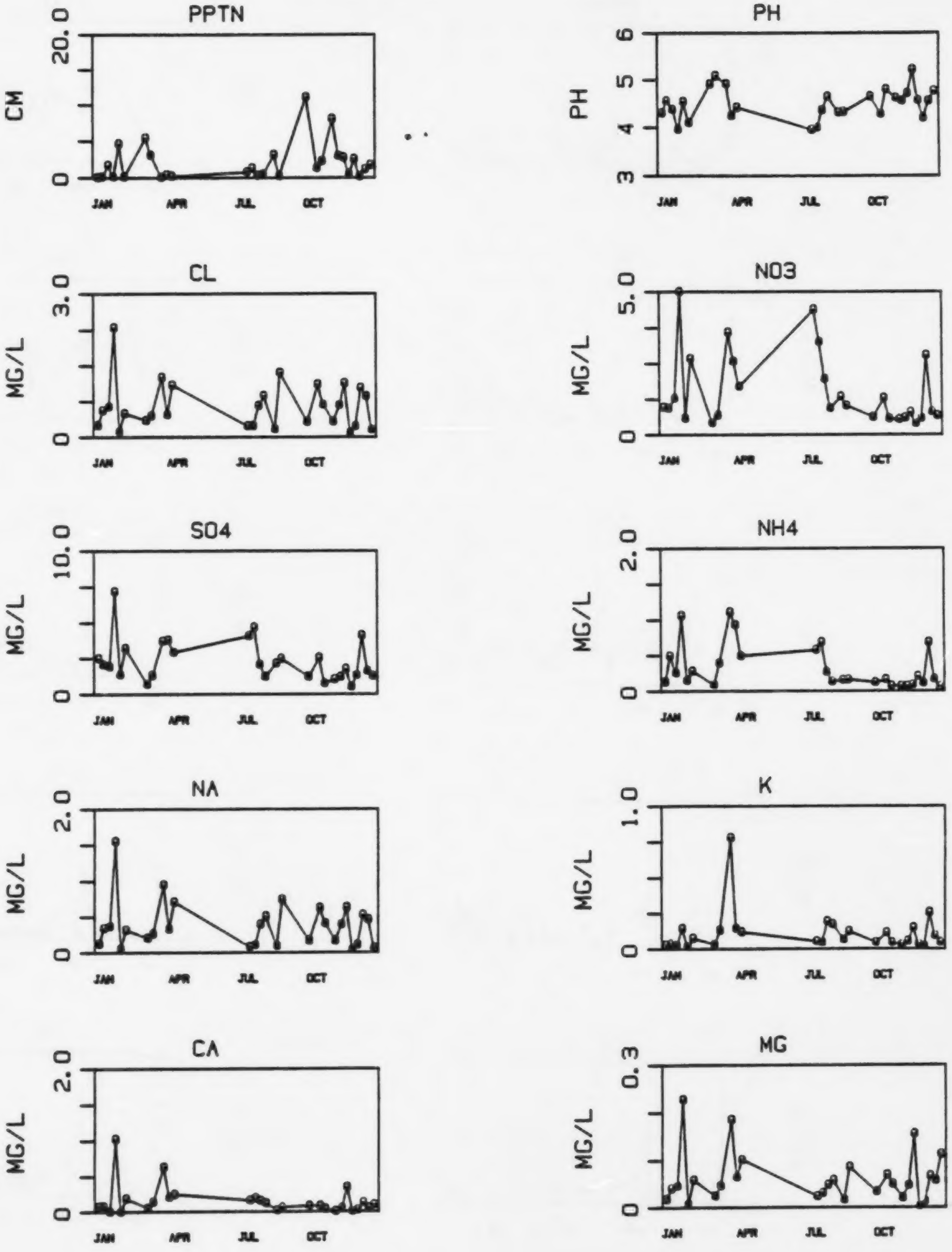


Figure 2-1 (continued)

Site: SCDEL

Data Plots, JAN '86 - DEC '86

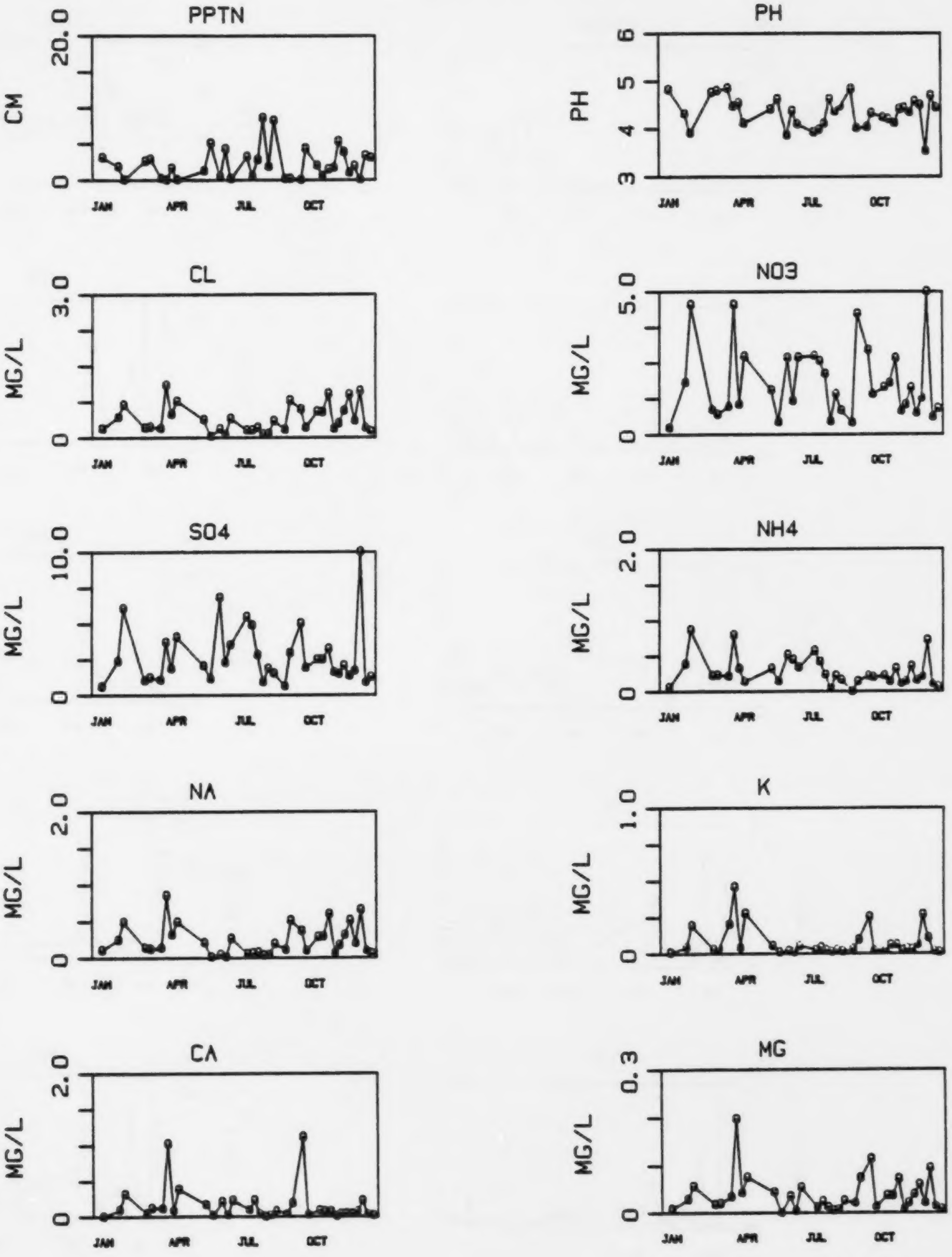
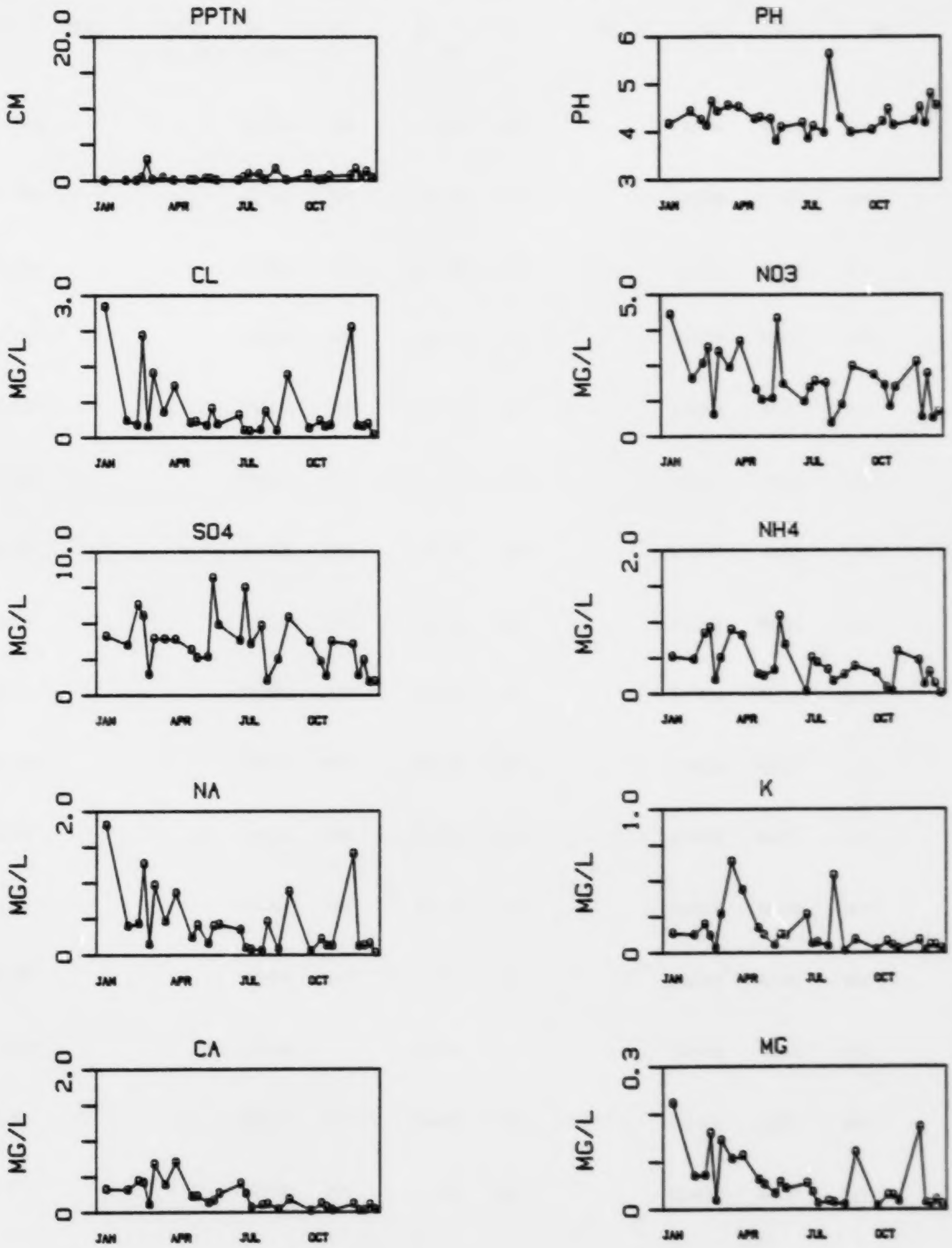


Figure 2-1 (continued)

Site: SCLON

Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1550 | SCCAP | 860107 | | 930 | 860114 | 930 | 860123 | | | 1527.00 | 0.7 |
| 1560 | SCCAP | 860114 | | 930 | 860121 | 930 | 860128 | | | 193.00 | |
| 1590 | SCCAP | 860121 | | 930 | 860128 | 930 | 860206 | | | 1854.50 | 19.9 |
| 1609 | SCCAP | 860128 | | 930 | 860204 | 930 | 860214 | | | 233.00 | 56.0 |
| 1626 | SCCAP | 860204 | | 930 | 860211 | 930 | 860221 | | | 5405.00 | 8.2 |
| 1660 | SCCAP | 860211 | | 930 | 860218 | 930 | 860305 | | | 126.50 | |
| 1682 | SCCAP | 860218 | | 930 | 860225 | 930 | 860312 | | | 174.00 | 37.5 |
| 1712 | SCCAP | 860225 | | 930 | 860304 | 930 | 860327 | | | 747.50 | 25.4 |
| 1713 | SCCAP | 860304 | | 930 | 860311 | 930 | 860327 | | | 24.00 | |
| 1714 | SCCAP | 860311 | | 930 | 860318 | 930 | 860327 | | | 5206.50 | 8.2 |
| 1723 | SCCAP | 860318 | | 930 | 860325 | 930 | 860401 | | | 470.00 | 33.3 |
| 1740 | SCCAP | 860325 | | 930 | 860401 | 930 | 860411 | | | 40.00 | |
| 1753 | SCCAP | 860401 | | 930 | 860408 | 1142 | 860415 | | | 108.00 | |
| 1774 | SCCAP | 860408 | | | 860415 | | 860423 | | | 1075.00 | 27.8 |
| 1798 | SCCAP | 860415 | | 930 | 860422 | 930 | 860501 | | | 145.50 | |
| 1824 | SCCAP | 860422 | | 930 | 860429 | 930 | 860508 | | | 11.00 | |
| 1842 | SCCAP | 860506 | | 930 | 860513 | 930 | 860521 | 2 | 1.20 | 2099.50 | 45.0 |

```
                              PROJECT:  EPAAR1                                         13-APR-87
                            GLOBAL GEOCHEMISTRY                                        PAGE 1-20


 ID      STN      BD         TYPE       BT       ED        ET       DR     EVENT     INCH       FWT    FCOND
                                               YRMODY              YRMODY  # EVENTS               gm  umho/cm


 1054    SCCAP    860513                930    860520     930    860528        1     0.01     24.00

 1072    SCCAP    860520                930    860527     930    860605                        2.50

 1094    SCCAP    860527                930    860603     930    860611        2     0.50    337.00      84.0
```

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1550 | SCCAP | 860107 | 4.82 | | | 1.04 | 1.23 | 300.000 | 4.81 | 21.54 | 5.9 |
| 1560 | SCCAP | 860114 | | | | 1.14 | 1.09 | 190.000 | 4.55 | 32.04 | 14.8 |
| 1590 | SCCAP | 860121 | 4.43 | | | 1.02 | 1.06 | 445.000 | 4.43 | 42.09 | 17.0 |
| 1609 | SCCAP | 860128 | 4.07 | | | 1.03 | 1.01 | 180.000 | 4.10 | 91.29 | 54.7 |
| 1626 | SCCAP | 860204 | 4.81 | | | 0.96 | 1.14 | 500.000 | 4.86 | 16.40 | 6.9 |
| 1660 | SCCAP | 860211 | | 3 | | 1.00 | 1.04 | 130.000 | 4.21 | 67.21 | 36.6 |
| 1682 | SCCAP | 860218 | 4.16 | 3 | 33 | 1.05 | 0.99 | 140.000 | 4.25 | 63.72 | 32.6 |
| 1712 | SCCAP | 860225 | 4.45 | 3 | 33 | 0.97 | 1.06 | 400.000 | 4.35 | 49.58 | 23.3 |
| 1713 | SCCAP | 860304 | | 3 | 34 | 1.10 | 0.97 | 20.000 | 4.00 | | 120.8 |
| 1714 | SCCAP | 860311 | 5.17 | | 22 | 1.02 | 1.15 | 500.000 | 5.14 | 13.38 | 6.9 |
| 1723 | SCCAP | 860318 | 4.29 | 3 | | 1.02 | 1.05 | 425.000 | 4.25 | 64.97 | 29.1 |
| 1748 | SCCAP | 860325 | | | | 1.06 | 1.09 | 35.000 | 3.60 | | 165.7 |
| 1753 | SCCAP | 860401 | | 3 | 993334 | 9999.00 | 9999.00 | 100.000 | 4.07 | | |
| 1774 | SCCAP | 860408 | 4.37 | 3 | 33 | 0.98 | 1.12 | 400.000 | 4.34 | 50.11 | 25.6 |
| 1798 | SCCAP | 860415 | | 3 | 33 | 0.98 | 1.04 | 140.000 | 4.33 | 53.60 | 40.7 |
| 1824 | SCCAP | 860422 | | 3 | 99 | 9999.00 | 9999.00 | 5.000 | 3.32 | | |
| 1842 | SCCAP | 860506 | 4.07 | | | 1.05 | 0.97 | 550.000 | 4.11 | 89.80 | 42.5 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | DD | FPN | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1054 | SCCAP | 860513 |  | 3 |  | 1.07 | 0.93 | 20.000 | 4.26 |  | 74.0 |
| 1072 | SCCAP | 860520 |  |  |  | 1.21 | 0.67 | 2.000 | 4.92 |  | 141.0 |
| 1094 | SCCAP | 860527 | 3.74 | 3 | 33 | 1.06 | 0.99 | 450.000 | 3.77 | 191.80 | 80.8 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1550 | SCCAP | 860107 | 0.005 | 0.169 | -0.005 | 0.018 | -0.035 | 0.213 | 0.569 | -0.007 | 0.092 |
| | | | 0.250 | 4.755 | -0.108 | 0.193 | -0.442 | 3.437 | 5.917 | -0.382 | 3.985 |
| 1560 | SCCAP | 860114 | 0.012 | 0.839 | -0.008 | -0.049 | -0.022 | 0.570 | 1.421 | 0.067 | 0.436 |
| | | | 0.613 | 23.666 | -0.175 | -0.518 | -0.270 | 9.176 | 14.779 | 3.694 | 18.966 |
| 1590 | SCCAP | 860121 | 0.007 | 0.371 | -0.010 | -0.010 | -0.041 | 0.740 | 1.506 | 0.130 | 0.163 |
| | | | 0.365 | 10.475 | -0.226 | -0.102 | -0.519 | 11.907 | 15.661 | 7.188 | 7.093 |
| 1609 | SCCAP | 860128 | 0.046 | 2.500 | -0.007 | -0.015 | -0.052 | 4.385 | 4.836 | 0.594 | 1.599 |
| | | | 2.441 | 70.501 | -0.156 | -0.159 | -0.656 | 70.604 | 50.296 | 32.896 | 69.570 |
| 1626 | SCCAP | 860204 | 0.002 | 0.335 | -0.008 | -0.022 | -0.040 | 0.380 | 0.635 | 0.056 | 0.191 |
| | | | 0.084 | 9.437 | -0.180 | -0.226 | -0.495 | 6.111 | 6.601 | 3.102 | 8.320 |
| 1660 | SCCAP | 860211 | 0.025 | 2.131 | -0.013 | -0.052 | -0.027 | 2.005 | 2.961 | 0.074 | 1.295 |
| | | | 1.322 | 60.107 | -0.280 | -0.543 | -0.343 | 32.285 | 30.791 | 4.086 | 56.351 |
| 1682 | SCCAP | 860218 | 0.024 | 0.597 | -0.013 | -0.052 | -0.060 | 2.158 | 3.287 | 0.426 | 0.447 |
| | | | 1.261 | 16.841 | -0.293 | -0.543 | -0.746 | 34.739 | 34.182 | 23.624 | 19.454 |
| 1712 | SCCAP | 860225 | 0.015 | 0.569 | -0.012 | -0.033 | -0.068 | 1.814 | 2.315 | 0.445 | 0.356 |
| | | | 0.810 | 16.042 | -0.259 | -0.347 | -0.856 | 29.212 | 24.081 | 24.632 | 15.472 |
| 1713 | SCCAP | 860304 | 0.133 | 6.383 | -0.012 | 0.460 | -0.068 | 12.555 | 13.121 | 2.779 | 3.712 |
| | | | 6.979 | 180.005 | -0.261 | 4.825 | -0.855 | 202.138 | 136.457 | 153.959 | 161.468 |
| 1714 | SCCAP | 860311 | 0.003 | 1.158 | -0.012 | 0.040 | -0.068 | 0.204 | 0.405 | 0.033 | 0.648 |
| | | | 0.140 | 32.642 | -0.264 | 0.423 | -0.854 | 3.289 | 4.214 | 1.810 | 28.206 |
| 1723 | SCCAP | 860318 | 0.015 | 0.699 | -0.013 | -0.035 | -0.067 | 1.536 | 2.992 | 0.289 | 0.412 |
| | | | 0.777 | 19.715 | -0.291 | -0.364 | -0.841 | 24.735 | 31.122 | 16.017 | 17.904 |
| 1748 | SCCAP | 860325 | 0.094 | 12.817 | -0.014 | -0.214 | -0.047 | 8.473 | 16.045 | 1.096 | 7.713 |
| | | | 4.939 | 361.438 | -0.307 | -2.250 | -0.585 | 136.408 | 166.867 | 60.729 | 335.515 |
| 1753 | SCCAP | 860401 | | | | | | | | | |
| 1774 | SCCAP | 860408 | 0.014 | 0.535 | -0.046 | -0.024 | -0.031 | 1.757 | 3.234 | 0.622 | 0.387 |
| | | | 0.745 | 15.078 | -1.001 | -0.251 | -0.384 | 28.292 | 33.635 | 34.476 | 16.834 |
| 1798 | SCCAP | 860415 | 0.028 | 6.093 | -0.012 | -0.011 | 0.044 | 2.208 | 3.542 | 0.267 | 3.692 |
| | | | 1.466 | 171.826 | -0.259 | -0.119 | 0.553 | 35.547 | 36.832 | 14.816 | 160.606 |
| 1824 | SCCAP | 860422 | | | | | | | | | |
| 1842 | SCCAP | 860506 | 0.022 | 0.545 | -0.009 | 0.029 | -0.019 | 1.769 | 4.521 | 0.486 | 0.306 |
| | | | 1.146 | 15.380 | -0.196 | 0.309 | -0.237 | 28.474 | 47.019 | 26.907 | 13.290 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1054 | SCCAP | 860513 | 0.080 | 9.392 | -0.011 | 0.047 | 0.103 | 3.392 | 4.424 | -0.034 | 5.318 |
| | | | 4.190 | 264.852 | -0.243 | 0.497 | 1.289 | 54.607 | 46.007 | -1.859 | 231.340 |
| 1072 | SCCAP | 860520 | 0.129 | 9.218 | -0.017 | -0.126 | -0.011 | 9.133 | 15.619 | 2.204 | 6.758 |
| | | | 6.792 | 259.934 | -0.368 | -1.327 | -0.140 | 147.037 | 162.437 | 122.087 | 293.989 |
| 1094 | SCCAP | 860527 | 0.034 | 0.445 | -0.006 | -0.020 | -0.013 | 2.296 | 8.699 | 0.548 | 0.175 |
| | | | 1.783 | 12.540 | -0.131 | -0.207 | -0.164 | 36.969 | 90.467 | 30.332 | 7.620 |

| ID | STN | DD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1550 | SCCAP | 860107 | 0.004 | -0.057 | 0.007 |
| | | | 0.107 | -1.419 | 0.304 |
| 1560 | SCCAP | 860114 | 0.031 | -0.047 | 0.050 |
| | | | 0.782 | -1.174 | 2.046 |
| 1590 | SCCAP | 860121 | 0.014 | -0.038 | 0.021 |
| | | | 0.371 | -0.957 | 0.877 |
| 1609 | SCCAP | 860128 | 0.161 | 0.663 | 0.222 |
| | | | 4.106 | 16.604 | 9.147 |
| 1626 | SCCAP | 860204 | 0.014 | 0.059 | 0.021 |
| | | | 0.368 | 1.476 | 0.852 |
| 1660 | SCCAP | 860211 | 0.124 | 0.271 | 0.210 |
| | | | 3.170 | 6.757 | 8.628 |
| 1682 | SCCAP | 860218 | 0.074 | 0.195 | 0.061 |
| | | | 1.902 | 4.864 | 2.501 |
| 1712 | SCCAP | 860225 | 0.050 | 0.220 | 0.050 |
| | | | 1.280 | 5.491 | 2.047 |
| 1713 | SCCAP | 860304 | 0.681 | 2.767 | 0.570 |
| | | | 17.409 | 69.032 | 23.436 |
| 1714 | SCCAP | 860311 | 0.031 | 0.029 | 0.066 |
| | | | 0.791 | 0.733 | 2.701 |
| 1723 | SCCAP | 860318 | 0.102 | 0.163 | 0.056 |
| | | | 2.616 | 4.075 | 2.286 |
| 1748 | SCCAP | 860325 | 0.730 | 0.968 | 0.959 |
| | | | 18.683 | 24.143 | 39.466 |
| 1753 | SCCAP | 860401 | | | |
| 1774 | SCCAP | 860408 | 0.133 | 0.170 | 0.065 |
| | | | 3.400 | 4.240 | 2.667 |
| 1798 | SCCAP | 860415 | 0.231 | 0.567 | 0.400 |
| | | | 5.909 | 14.141 | 16.457 |
| 1824 | SCCAP | 860422 | | | |
| 1842 | SCCAP | 860506 | 0.067 | 0.223 | 0.047 |
| | | | 1.711 | 5.565 | 1.939 |

```
ID        STN       BD             K          CA          MG
                               ug/ml       ug/ml       ug/ml
                            umoles/l    umoles/l    umoles/l

 1054     SCCAP    860513      0.463       0.861       0.618
                              11.847      21.482      25.412

 1072     SCCAP    860520      0.626       2.043       0.773
                              16.012      50.963      31.801

 1094     SCCAP    860527      0.039       0.190       0.036
                               0.991       4.736       1.481
```

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1919 | SCCAP | 860603 | | 930 | 860610 | 930 | 860617 | 4 | 1.02 | 1601.00 | 47.3 |
| 1937 | SCCAP | 860610 | | 930 | 860617 | 930 | 860627 | | | 2913.50 | 16.0 |
| 1950 | SCCAP | 860617 | | 930 | 860624 | 930 | 860702 | | | 94.00 | |
| 1964 | SCCAP | 860624 | | 930 | 860701 | 930 | 860711 | 1 | | 111.00 | |
| 1983 | SCCAP | 860701 | | 930 | 860708 | 930 | 860718 | 2 | 0.25 | 644.00 | 42.0 |
| 2012 | SCCAP | 860708 | | 930 | 860715 | 930 | 860729 | | | 942.00 | 64.5 |
| 2019 | SCCAP | 860715 | | 930 | 860722 | 930 | 860731 | | | 200.00 | 56.2 |
| 2045 | SCCAP | 860722 | | 930 | 860729 | 930 | 860808 | 3 | 4.14 | 7347.00 | 32.7 |
| 2071 | SCCAP | 860805 | | 930 | 860812 | 930 | 860819 | | | 25.00 | |
| 2074 | SCCAP | 860729 | | 930 | 860805 | 930 | 860819 | | | 1272.00 | 58.6 |
| 2097 | SCCAP | 860812 | | 930 | 860819 | 930 | 860828 | 5 | 4.03 | 6882.50 | 11.9 |
| 2130 | SCCAP | 860819 | | 930 | 860826 | 930 | 860915 | 3 | | 2929.50 | 23.1 |
| 2170 | SCCAP | 860826 | | 930 | 860902 | 930 | 860925 | 3 | 0.50 | 2640.50 | 36.2 |
| 2186 | SCCAP | 860902 | | 930 | 860909 | 930 | 860926 | | | 4226.00 | 0.3 |
| 2218 | SCCAP | 860923 | | 930 | 860930 | 930 | 861016 | | | 4.50 | |
| 2231 | SCCAP | 861007 | | 930 | 861014 | 930 | 861021 | | | 6658.00 | 20.7 |
| 2255 | SCCAP | 860909 | | 930 | 860916 | 930 | 861029 | | | 86.00 | 17.0 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2263 | SCCAP | 860916 | | 930 | 860923 | 930 | 861030 | | | 630.00 | 103.1 |
| 2279 | SCCAP | 861014 | | 930 | 861021 | 930 | 861104 | | | 1082.00 | 9.0 |
| 2294 | SCCAP | 861021 | | | 861028 | | 861110 | | | | |
| 2316 | SCCAP | 861028 | | 930 | 861105 | 930 | 861121 | | | 1681.50 | 24.1 |
| 2317 | SCCAP | 861105 | | 930 | 861112 | 930 | 861121 | | | 1417.00 | 5.8 |
| 2336 | SCCAP | 861112 | | 930 | 861118 | 930 | 861125 | | | 1595.00 | 11.8 |
| 2354 | SCCAP | 861118 | | 930 | 861125 | 130 | 861201 | 2 | | 4247.00 | 8.6 |
| 2381 | SCCAP | 861125 | | 1330 | 861202 | 1330 | 861210 | 3 | | 3975.50 | 17.8 |
| 2408 | SCCAP | 861202 | | 930 | 861209 | 930 | 861219 | 2 | 0.27 | 542.00 | 11.7 |
| 2449 | SCCAP | 861209 | | 930 | 861216 | 930 | 870106 | | | 5304.50 | 6.6 |
| 2450 | SCCAP | 861223 | | 930 | 861230 | 930 | 870106 | 2 | 1.99 | 3101.00 | 20.8 |
| 2458 | SCCAP | 861216 | | 930 | 861223 | 1230 | 870108 | | | 162.00 | 32.3 |
| 2488 | SCCAP | 861230 | | 930 | 870106 | 930 | 870114 | 5 | 0.70 | 2743.50 | 42.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1919 | SCCAP | 860603 | 4.11 | 3 | 3334 | 1.01 | 1.00 | 525.0 | 4.15 | 80.2 | 45.5 |
| 1937 | SCCAP | 860610 | 4.55 |  |  | 1.02 | 1.04 | 450.0 | 4.54 | 33.1 | 15.5 |
| 1950 | SCCAP | 860617 |  |  | 1099 | 9999.00 | 9999.00 |  |  |  |  |
| 1964 | SCCAP | 860624 |  | 3 |  | 1.00 | 1.03 | 110.0 | 4.22 | 69.6 | 31.2 |
| 1983 | SCCAP | 860701 | 4.11 |  |  | 1.05 | 1.03 | 500.0 | 4.07 | 100.5 | 38.4 |
| 2012 | SCCAP | 860708 | 3.90 | 3 |  | 1.09 | 0.98 | 450.0 | 3.90 | 140.9 | 63.2 |
| 2019 | SCCAP | 860715 | 4.04 | 3 | 33 | 1.04 | 0.98 | 155.0 | 4.03 | 102.8 | 55.5 |
| 2045 | SCCAP | 860722 | 4.21 |  |  | 1.01 | 1.03 | 540.0 | 4.23 | 64.8 | 29.5 |
| 2071 | SCCAP | 860805 |  | 3 |  | 1.07 | 1.14 | 15.0 | 4.19 |  | 39.5 |
| 2074 | SCCAP | 860729 | 3.95 | 3 |  | 1.06 | 1.06 | 540.0 | 3.97 | 117.9 | 52.9 |
| 2097 | SCCAP | 860812 | 4.77 |  |  | 0.99 | 1.15 | 550.0 | 4.78 | 20.4 | 9.7 |
| 2130 | SCCAP | 860819 | 4.40 | 3 | 33 | 1.04 | 1.12 | 500.0 | 4.39 | 45.3 | 19.7 |
| 2170 | SCCAP | 860826 | 4.13 |  |  | 1.08 | 1.05 | 550.0 | 4.19 | 72.6 | 32.6 |
| 2186 | SCCAP | 860902 | 4.47 |  |  | 1.05 | 1.24 | 525.0 | 4.83 | 20.8 | 6.7 |
| 2218 | SCCAP | 860923 |  |  | 1099 | 9999.00 | 9999.00 | 1.0 | 4.71 |  |  |
| 2231 | SCCAP | 861007 | 4.37 |  |  | 1.05 | 1.10 | 550.0 | 4.50 | 37.4 | 18.8 |
| 2255 | SCCAP | 860909 | 4.46 | 3 |  | 1.06 | 1.03 | 80.0 | 4.09 | 92.0 | 64.3 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2263 | SCCAP | 860916 | 3.77 | 3 | 34 | 1.04 | 1.01 | 500.0 | 3.79 | 175.9 | 102.0 |
| 2279 | SCCAP | 861014 | 4.55 | 3 |  | 1.12 | 1.25 | 550.0 | 4.78 | 22.3 | 6.9 |
| 2294 | SCCAP | 861021 |  | 3 |  | 1.01 | 1.03 | 140.0 | 4.64 | 29.0 | 30.9 |
| 2316 | SCCAP | 861028 | 4.56 | 3 |  | 1.01 | 1.02 | 550.0 | 4.64 | 30.9 | 23.2 |
| 2317 | SCCAP | 861105 | 5.04 |  |  | 1.05 | 1.19 | 550.0 | 5.04 | 15.6 | 5.0 |
| 2336 | SCCAP | 861112 | 4.83 |  |  | 1.03 | 1.12 | 475.0 | 4.76 | 22.9 | 10.3 |
| 2354 | SCCAP | 861118 | 4.71 |  |  | 1.07 | 1.24 | 525.0 | 4.83 | 18.7 | 7.1 |
| 2381 | SCCAP | 861125 | 4.71 |  |  | 1.02 | 1.07 | 550.0 | 4.72 | 24.2 | 16.5 |
| 2408 | SCCAP | 861202 | 4.60 |  |  | 1.10 | 1.20 | 400.0 | 4.65 | 28.3 | 9.1 |
| 2449 | SCCAP | 861209 | 4.81 |  |  | 1.19 | 1.32 | 550.0 | 4.92 | 17.9 | 4.9 |
| 2450 | SCCAP | 861223 | 5.10 |  |  | 1.05 | 1.05 | 550.0 | 5.16 | 11.9 | 19.7 |
| 2458 | SCCAP | 861216 | 4.18 | 3 |  | 1.09 | 1.07 | 140.0 | 4.20 | 70.0 | 29.3 |
| 2488 | SCCAP | 861230 | 4.25 | 3 |  | 1.08 | 1.03 | 525.0 | 4.35 | 51.7 | 41.9 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1919 | SCCAP | 860603 | 0.026 | 3.150 | -0.012 | -0.023 | -0.008 | 1.724 | 3.499 | 0.273 | 1.752 |
| | | | 1.355 | 88.834 | -0.260 | -0.243 | -0.097 | 27.761 | 36.393 | 15.118 | 76.231 |
| 1937 | SCCAP | 860610 | 0.006 | 0.799 | -0.010 | -0.018 | -0.020 | 0.982 | 0.989 | 0.060 | 0.437 |
| | | | 0.321 | 22.531 | -0.209 | -0.192 | -0.247 | 15.818 | 10.291 | 3.331 | 19.018 |
| 1950 | SCCAP | 860617 | | | | | | | | | |
| 1964 | SCCAP | 860624 | 0.034 | 0.614 | -0.006 | 0.040 | -0.003 | 1.687 | 2.985 | 0.366 | 0.343 |
| | | | 1.775 | 17.301 | -0.136 | 0.421 | -0.042 | 27.153 | 31.047 | 20.262 | 14.900 |
| 1983 | SCCAP | 860701 | 0.021 | 0.352 | -0.006 | 0.039 | -0.011 | 1.903 | 3.451 | 0.175 | 0.137 |
| | | | 1.119 | 9.929 | -0.139 | 0.405 | -0.141 | 30.631 | 35.892 | 9.722 | 5.955 |
| 2012 | SCCAP | 860708 | 0.054 | 0.727 | -0.003 | 0.046 | -0.007 | 3.165 | 5.844 | 0.248 | 0.280 |
| | | | 2.819 | 20.507 | -0.058 | 0.486 | -0.088 | 50.961 | 60.775 | 13.743 | 12.186 |
| 2019 | SCCAP | 860715 | 0.036 | 2.042 | -0.005 | -0.024 | -0.006 | 4.186 | 3.918 | 0.447 | 1.123 |
| | | | 1.884 | 57.587 | -0.117 | -0.256 | -0.076 | 67.402 | 40.751 | 24.741 | 48.834 |
| 2045 | SCCAP | 860722 | 0.009 | 0.771 | -0.008 | 0.030 | -0.005 | 1.168 | 2.743 | 0.219 | 0.427 |
| | | | 0.490 | 21.745 | -0.166 | 0.310 | -0.058 | 18.804 | 28.528 | 12.152 | 18.568 |
| 2071 | SCCAP | 860805 | 0.058 | 1.696 | -0.007 | -0.529 | -0.018 | 4.682 | 3.634 | 0.836 | 1.154 |
| | | | 3.049 | 47.817 | -0.153 | -5.550 | -0.221 | 75.382 | 37.789 | 46.310 | 50.212 |
| 2074 | SCCAP | 860729 | 0.045 | 1.311 | -0.006 | -0.044 | -0.019 | 3.628 | 4.577 | 0.348 | 0.741 |
| | | | 2.368 | 36.975 | -0.137 | -0.458 | -0.237 | 58.413 | 47.600 | 19.252 | 32.221 |
| 2097 | SCCAP | 860812 | 0.005 | 0.936 | -0.005 | -0.022 | -0.018 | 0.507 | 0.641 | 0.036 | 0.538 |
| | | | 0.238 | 26.394 | -0.099 | -0.227 | -0.221 | 8.158 | 6.666 | 1.994 | 23.401 |
| 2130 | SCCAP | 860819 | 0.011 | 0.717 | -0.025 | 0.045 | -0.004 | 0.926 | 1.924 | 0.182 | 0.388 |
| | | | 0.598 | 20.227 | -0.542 | 0.470 | -0.052 | 14.909 | 20.006 | 10.110 | 16.887 |
| 2170 | SCCAP | 860826 | 0.014 | 1.434 | -0.011 | 0.026 | -0.026 | 1.291 | 2.770 | 0.090 | 0.719 |
| | | | 0.745 | 40.450 | -0.238 | 0.276 | -0.327 | 20.793 | 28.804 | 4.964 | 31.267 |
| 2186 | SCCAP | 860902 | 0.005 | 0.447 | -0.009 | 0.029 | -0.014 | 0.347 | 0.564 | 0.027 | 0.245 |
| | | | 0.286 | 12.603 | -0.192 | 0.305 | -0.177 | 5.586 | 5.864 | 1.487 | 10.639 |
| 2218 | SCCAP | 860923 | | | | | | | | | |
| 2231 | SCCAP | 861007 | 0.010 | 1.573 | 0.000 | 0.022 | 0.000 | 0.876 | 1.444 | 0.087 | 0.860 |
| | | | 0.530 | 44.352 | 0.000 | 0.230 | 0.000 | 14.096 | 15.021 | 4.835 | 37.389 |
| 2255 | SCCAP | 860909 | 0.046 | 5.068 | 0.000 | 0.024 | 0.032 | 4.073 | 5.631 | 0.452 | 2.870 |
| | | | 2.396 | 142.917 | 0.000 | 0.247 | 0.400 | 65.582 | 58.560 | 25.040 | 124.835 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2263 | SCCAP | 860916 | 0.045 | 6.532 | 0.000 | 0.016 | 0.043 | 4.858 | 7.827 | 0.569 | 3.706 |
| | | | 2.373 | 184.188 | 0.000 | 0.170 | 0.544 | 78.208 | 81.400 | 31.548 | 161.202 |
| 2279 | SCCAP | 861014 | -0.008 | 0.230 | -0.012 | 0.077 | -0.054 | 0.428 | 0.671 | 0.047 | 0.126 |
| | | | -0.399 | 6.480 | -0.258 | 0.805 | -0.673 | 6.884 | 6.980 | 2.598 | 5.466 |
| 2294 | SCCAP | 861021 | 0.026 | 4.816 | -0.008 | -0.045 | 0.014 | 1.226 | 1.807 | 0.103 | 2.807 |
| | | | 1.349 | 135.801 | -0.174 | -0.475 | 0.179 | 19.745 | 18.794 | 5.730 | 122.115 |
| 2316 | SCCAP | 861028 | 0.010 | 3.248 | -0.013 | -0.024 | -0.026 | 0.593 | 1.437 | 0.068 | 1.831 |
| | | | 0.539 | 91.599 | -0.291 | -0.256 | -0.323 | 9.550 | 14.940 | 3.747 | 79.637 |
| 2317 | SCCAP | 861105 | -0.001 | 0.458 | -0.008 | 0.048 | -0.005 | 0.191 | 0.418 | -0.014 | 0.270 |
| | | | -0.045 | 12.915 | -0.171 | 0.508 | -0.062 | 3.071 | 4.352 | -0.798 | 11.741 |
| 2336 | SCCAP | 861112 | -0.002 | 0.765 | -0.017 | 0.053 | -0.012 | 0.469 | 0.932 | 0.110 | 0.440 |
| | | | -0.114 | 21.565 | -0.369 | 0.552 | -0.153 | 7.550 | 9.692 | 6.072 | 19.123 |
| 2354 | SCCAP | 861118 | -0.003 | 0.504 | -0.011 | 0.083 | -0.013 | 0.346 | 0.623 | 0.044 | 0.277 |
| | | | -0.153 | 14.206 | -0.243 | 0.872 | -0.162 | 5.567 | 6.482 | 2.458 | 12.051 |
| 2381 | SCCAP | 861125 | 0.017 | 2.315 | -0.002 | 0.052 | 0.055 | 0.365 | 0.982 | 0.039 | 1.286 |
| | | | 0.900 | 65.274 | -0.045 | 0.546 | 0.688 | 5.880 | 10.210 | 2.154 | 55.953 |
| 2408 | SCCAP | 861202 | -0.004 | 0.251 | -0.005 | 0.059 | -0.037 | 0.380 | 0.929 | 0.032 | 0.129 |
| | | | -0.215 | 7.069 | -0.102 | 0.620 | -0.459 | 6.121 | 9.661 | 1.753 | 5.619 |
| 2449 | SCCAP | 861209 | -0.007 | 0.221 | -0.010 | 0.085 | -0.054 | 0.356 | 0.443 | 0.033 | 0.112 |
| | | | -0.351 | 6.219 | -0.219 | 0.889 | -0.680 | 5.725 | 4.607 | 1.825 | 4.880 |
| 2450 | SCCAP | 861223 | -0.007 | 4.245 | -0.010 | -0.032 | 0.142 | 0.229 | 1.116 | -0.007 | 2.235 |
| | | | -0.354 | 119.705 | -0.219 | -0.332 | 1.777 | 3.681 | 11.604 | -0.405 | 97.210 |
| 2458 | SCCAP | 861216 | 0.037 | 0.386 | -0.026 | -0.045 | -0.016 | 1.250 | 3.158 | 0.275 | 0.092 |
| | | | 1.962 | 10.878 | -0.563 | -0.472 | -0.199 | 20.119 | 32.841 | 15.237 | 4.016 |
| 2488 | SCCAP | 861230 | -0.003 | 5.848 | -0.006 | 0.023 | 0.133 | 1.271 | 2.496 | 0.106 | 3.031 |
| | | | -0.184 | 164.922 | -0.133 | 0.244 | 1.669 | 20.470 | 25.961 | 5.896 | 131.852 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1919 | SCCAP | 860603 | 0.104<br>2.665 | 0.163<br>4.062 | 0.209<br>8.581 |
| 1937 | SCCAP | 860610 | 0.020<br>0.521 | 0.041<br>1.033 | 0.055<br>2.257 |
| 1950 | SCCAP | 860617 | | | |
| 1964 | SCCAP | 860624 | 0.038<br>0.983 | 0.187<br>4.658 | 0.051<br>2.112 |
| 1983 | SCCAP | 860701 | 0.035<br>0.889 | 0.126<br>3.135 | 0.023<br>0.962 |
| 2012 | SCCAP | 860708 | 0.049<br>1.257 | 0.466<br>11.636 | 0.062<br>2.557 |
| 2019 | SCCAP | 860715 | 0.090<br>2.292 | 0.394<br>9.830 | 0.153<br>6.295 |
| 2045 | SCCAP | 860722 | 0.031<br>0.801 | 0.078<br>1.950 | 0.050<br>2.075 |
| 2071 | SCCAP | 860805 | 0.334<br>8.539 | 0.212<br>5.289 | 0.108<br>4.439 |
| 2074 | SCCAP | 860729 | 0.084<br>2.152 | 0.267<br>6.651 | 0.102<br>4.196 |
| 2097 | SCCAP | 860812 | 0.023<br>0.586 | 0.024<br>0.596 | 0.063<br>2.580 |
| 2130 | SCCAP | 860819 | 0.029<br>0.729 | 0.039<br>0.977 | 0.048<br>1.984 |
| 2170 | SCCAP | 860826 | 0.033<br>0.854 | 0.058<br>1.439 | 0.089<br>3.676 |
| 2186 | SCCAP | 860902 | 0.011<br>0.290 | 0.004<br>0.111 | 0.029<br>1.183 |
| 2218 | SCCAP | 860923 | | | |
| 2231 | SCCAP | 861007 | 0.039<br>1.000 | 0.044<br>1.092 | 0.108<br>4.433 |
| 2255 | SCCAP | 860909 | 0.257<br>6.584 | 0.851<br>21.228 | 0.387<br>15.908 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2263 | SCCAP | 860916 | 0.178<br>4.550 | 0.360<br>8.978 | 0.443<br>18.227 |
| 2279 | SCCAP | 861014 | 0.005<br>0.128 | 0.015<br>0.385 | 0.015<br>0.602 |
| 2294 | SCCAP | 861021 | 0.139<br>3.544 | 0.229<br>5.717 | 0.323<br>13.306 |
| 2316 | SCCAP | 861028 | 0.077<br>1.960 | 0.089<br>2.223 | 0.220<br>9.066 |
| 2317 | SCCAP | 861105 | 0.018<br>0.463 | 0.021<br>0.525 | 0.033<br>1.348 |
| 2336 | SCCAP | 861112 | 0.035<br>0.897 | 0.022<br>0.560 | 0.052<br>2.125 |
| 2354 | SCCAP | 861118 | 0.014<br>0.361 | 0.016<br>0.391 | 0.033<br>1.353 |
| 2381 | SCCAP | 861125 | 0.051<br>1.312 | 0.054<br>1.341 | 0.150<br>6.162 |
| 2400 | SCCAP | 861202 | 0.018<br>0.470 | -0.017<br>-0.415 | 0.014<br>0.569 |
| 2449 | SCCAP | 861209 | 0.008<br>0.212 | 0.001<br>0.028 | 0.013<br>0.549 |
| 2450 | SCCAP | 861223 | 0.114<br>2.911 | 0.117<br>2.920 | 0.346<br>14.226 |
| 2458 | SCCAP | 861216 | 0.032<br>0.806 | 0.128<br>3.190 | 0.016<br>0.677 |
| 2480 | SCCAP | 861230 | 0.125<br>3.190 | 0.131<br>3.274 | 0.371<br>15.267 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1556 | SCCON | 860107 | | 1020 | 860113 | 1035 | 860127 | | | 60.00 | |
| 1575 | SCCON | 860113 | | 1035 | 860121 | 937 | 860130 | | | 122.00 | |
| 1591 | SCCON | 860121 | | 937 | 860128 | 1010 | 860206 | | | 1189.00 | 26.0 |
| 1602 | SCCON | 860128 | | 1010 | 860204 | 1245 | 860210 | | | 110.00 | |
| 1618 | SCCON | 860204 | | 1245 | 860211 | 1010 | 860219 | | | 3124.00 | 14.6 |
| 1646 | SCCON | 860211 | | 1220 | 860218 | 1004 | 860227 | | | 182.00 | |
| 1702 | SCCON | 860225 | | 1530 | 860304 | 1550 | 860325 | | | 0.00 | |
| 1715 | SCCON | 860311 | | 1115 | 860318 | 1013 | 860327 | | | 3700.00 | 7.9 |
| 1737 | SCCON | 860318 | | 1013 | 860325 | 1200 | 860409 | | | 2085.00 | 19.6 |
| 1749 | SCCON | 860401 | | 1014 | 860408 | 1000 | 860411 | | | 30.00 | |
| 1775 | SCCON | 860408 | | 1000 | 860415 | 1049 | 860423 | | | 260.00 | 35.0 |
| 1799 | SCCON | 860415 | | 1050 | 860422 | 1440 | 860501 | 1 | 0.09 | 229.00 | 26.1 |
| 1832 | SCCON | 860506 | | 910 | 860513 | 924 | 860515 | 2 | 0.07 | 125.00 | |
| 1855 | SCCON | 860513 | | 927 | 860520 | 835 | 860520 | 3 | | 655.00 | 40.3 |
| 1873 | SCCON | 860520 | | 835 | 860527 | 1420 | 860605 | 2 | 0.03 | 135.00 | |

| ID | STN | DD | FPH | CODE1 | CODE2 | A/C | TC/NC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1556 | SCCON | 860107 |  | 1 |  | 1.10 | 1.05 | 150.000 | 4.30 | 57.04 | 23.1 |
| 1575 | SCCON | 860113 |  | 3 |  | 0.96 | 1.06 | 130.000 | 4.55 | 33.10 | 17.7 |
| 1591 | SCCON | 860121 | 4.32 | 3 |  | 1.03 | 1.04 | 550.000 | 4.37 | 40.50 | 22.0 |
| 1602 | SCCON | 860128 |  | 3 |  | 1.00 | 1.00 | 100.000 | 3.96 | 122.42 | 73.7 |
| 1618 | SCCON | 860204 | 4.55 |  |  | 1.03 | 1.12 | 550.000 | 4.53 | 36.01 | 12.8 |
| 1646 | SCCON | 860211 |  | 3 |  | 1.02 | 1.06 | 100.000 | 4.10 | 86.11 | 37.7 |
| 1702 | SCCON | 860225 |  |  | 99 | 1.06 | 1.05 | 30.000 | 3.48 |  | 167.4 |
| 1715 | SCCON | 860311 | 4.97 |  |  | 1.05 | 1.15 | 500.000 | 4.91 | 16.84 | 6.8 |
| 1737 | SCCON | 860318 | 4.96 | 3 |  | 0.93 | 1.09 | 550.000 | 5.08 | 20.78 | 9.0 |
| 1749 | SCCON | 860401 |  | 3 |  | 0.95 | 1.09 | 42.000 | 4.91 |  | 25.7 |
| 1775 | SCCON | 860408 | 4.26 | 34 |  | 0.95 | 1.14 | 240.000 | 4.24 | 57.61 | 31.6 |
| 1799 | SCCON | 860415 | 4.45 | 3 |  | 1.00 | 1.11 | 140.000 | 4.41 | 43.83 | 24.8 |
| 1832 | SCCON | 860506 |  | 3 | 9933 | 9999.00 | 9999.00 | 130.000 | 3.70 |  |  |
| 1855 | SCCON | 860513 | 4.22 | 3 | 3334 | 1.05 | 1.04 | 400.000 | 4.36 | 52.50 | 35.3 |
| 1873 | SCCON | 860520 |  | 3 | 9933 | 9999.00 | 9999.00 | 130.000 | 4.35 |  |  |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1556 | SCCON | 860107 | 0.014 | 0.250 | -0.032 | -0.029 | -0.022 | 0.975 | 2.501 | 0.135 | 0.125 |
| | | | 0.751 | 7.053 | -0.688 | -0.305 | -0.277 | 15.704 | 26.006 | 7.468 | 5.430 |
| 1575 | SCCON | 860113 | 0.026 | 0.559 | -0.006 | -0.028 | -0.008 | 0.943 | 2.060 | 0.495 | 0.338 |
| | | | 1.380 | 15.764 | -0.141 | -0.298 | -0.098 | 15.186 | 21.423 | 27.421 | 14.698 |
| 1591 | SCCON | 860121 | 0.009 | 0.644 | -0.010 | -0.010 | -0.044 | 1.294 | 1.920 | 0.256 | 0.369 |
| | | | 0.480 | 18.155 | -0.217 | -0.102 | -0.547 | 20.841 | 19.968 | 14.169 | 16.060 |
| 1602 | SCCON | 860128 | 0.060 | 2.298 | -0.014 | -0.009 | -0.017 | 5.724 | 7.171 | 1.057 | 1.550 |
| | | | 3.132 | 64.817 | -0.300 | -0.090 | -0.213 | 92.151 | 74.575 | 58.582 | 67.421 |
| 1618 | SCCON | 860204 | 0.006 | 0.115 | -0.008 | 0.025 | -0.046 | 0.582 | 1.383 | 0.151 | 0.056 |
| | | | 0.318 | 3.239 | -0.167 | 0.260 | -0.579 | 9.364 | 14.378 | 8.393 | 2.434 |
| 1646 | SCCON | 860211 | 0.020 | 0.501 | -0.010 | 0.035 | -0.037 | 2.674 | 3.194 | 0.279 | 0.313 |
| | | | 1.037 | 14.114 | -0.220 | 0.365 | -0.465 | 43.046 | 33.217 | 15.483 | 13.621 |
| 1702 | SCCON | 860225 | 0.093 | 0.597 | -0.011 | 0.486 | -0.069 | 18.745 | 12.680 | 3.350 | 0.297 |
| | | | 4.920 | 16.829 | -0.232 | 5.106 | -0.869 | 301.791 | 131.876 | 185.576 | 12.909 |
| 1715 | SCCON | 860311 | 0.005 | 0.346 | -0.012 | 0.045 | -0.068 | 0.421 | 0.696 | 0.087 | 0.202 |
| | | | 0.272 | 9.755 | -0.266 | 0.471 | -0.852 | 6.776 | 7.237 | 4.825 | 8.783 |
| 1737 | SCCON | 860318 | 0.005 | 0.449 | -0.013 | -0.022 | -0.045 | 0.697 | 1.309 | 0.392 | 0.265 |
| | | | 0.281 | 12.651 | -0.273 | -0.228 | -0.562 | 11.214 | 13.614 | 21.729 | 11.515 |
| 1749 | SCCON | 860401 | 0.035 | 1.255 | -0.014 | -0.219 | -0.047 | 3.592 | 3.716 | 1.105 | 0.946 |
| | | | 1.856 | 35.393 | -0.313 | -2.299 | -0.585 | 57.824 | 38.651 | 61.202 | 41.147 |
| 1775 | SCCON | 860408 | 0.025 | 0.472 | -0.048 | -0.023 | -0.030 | 2.569 | 3.781 | 0.930 | 0.328 |
| | | | 1.334 | 13.302 | -1.037 | -0.239 | -0.372 | 41.357 | 39.319 | 51.543 | 14.254 |
| 1799 | SCCON | 860415 | 0.018 | 1.092 | -0.013 | 0.015 | -0.007 | 1.695 | 2.924 | 0.494 | 0.707 |
| | | | 0.935 | 30.803 | -0.278 | 0.161 | -0.094 | 27.284 | 30.408 | 27.347 | 30.769 |
| 1832 | SCCON | 860506 | | | | | | | | | |
| 1855 | SCCON | 860513 | 0.026 | 0.672 | -0.011 | 0.050 | -0.020 | 2.672 | 5.511 | 1.024 | 0.651 |
| | | | 1.352 | 18.961 | -0.246 | 0.524 | -0.255 | 43.016 | 57.318 | 56.727 | 28.324 |
| 1873 | SCCON | 860520 | | | | | | | | | |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1556 | SCCON | 860107 | 0.029<br>0.737 | 0.075<br>1.864 | 0.018<br>0.740 |
| 1575 | SCCON | 860113 | 0.037<br>0.936 | 0.078<br>1.954 | 0.040<br>1.666 |
| 1591 | SCCON | 860121 | 0.028<br>0.711 | -0.039<br>-0.966 | 0.047<br>1.936 |
| 1602 | SCCON | 860128 | 0.142<br>3.637 | 1.023<br>25.534 | 0.228<br>9.371 |
| 1618 | SCCON | 860204 | 0.019<br>0.494 | 0.003<br>0.071 | 0.008<br>0.322 |
| 1646 | SCCON | 860211 | 0.075<br>1.911 | 0.185<br>4.608 | 0.059<br>2.410 |
| 1702 | SCCON | 860225 | 0.219<br>5.592 | 0.541<br>13.498 | 0.098<br>4.016 |
| 1715 | SCCON | 860311 | 0.031<br>0.801 | 0.053<br>1.331 | 0.025<br>1.014 |
| 1737 | SCCON | 860318 | 0.131<br>3.343 | 0.138<br>3.444 | 0.047<br>1.920 |
| 1749 | SCCON | 860401 | 0.778<br>19.897 | 0.629<br>15.700 | 0.185<br>7.620 |
| 1775 | SCCON | 860408 | 0.142<br>3.638 | 0.208<br>5.188 | 0.065<br>2.687 |
| 1799 | SCCON | 860415 | 0.117<br>2.986 | 0.244<br>6.095 | 0.101<br>4.159 |
| 1832 | SCCON | 860506 | | | |
| 1855 | SCCON | 860513 | 0.460<br>11.762 | 0.415<br>10.353 | 0.133<br>5.456 |
| 1873 | SCCON | 860520 | | | |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2006 | SCCON | 860715 | | 1400 | 860722 | 1000 | 860728 | 2 | 0.06 | 80.00 | |
| 2046 | SCCON | 860722 | | 1000 | 860729 | 1015 | 860808 | 3 | 0.30 | 730.00 | 50.8 |
| 2053 | SCCON | 860729 | | 1015 | 860805 | 1115 | 860813 | 3 | | 882.00 | 53.4 |
| 2072 | SCCON | 860805 | | 1115 | 860812 | 1130 | 860819 | 3 | 0.12 | 443.00 | 20.1 |
| 2090 | SCCON | 860812 | | 1130 | 860819 | 825 | 860828 | 2 | 0.19 | 445.00 | 16.5 |
| 2106 | SCCON | 860819 | | 835 | 860826 | 850 | 860903 | 4 | 1.70 | 2965.00 | 24.9 |
| 2126 | SCCON | 860826 | | 952 | 860902 | 1210 | 860912 | 5 | 1.23 | 2346.00 | 24.4 |
| 2171 | SCCON | 860902 | | 1210 | 860909 | 900 | 860925 | 3 | 0.10 | 574.00 | 20.7 |
| 2187 | SCCON | 860909 | | 900 | 860916 | 1055 | 860926 | | | 11.00 | |
| 2219 | SCCON | 860930 | | 910 | 861007 | 1201 | 861016 | | | 10.00 | |
| 2256 | SCCON | 860922 | | 1400 | 860930 | 917 | 861029 | | | 50.00 | |
| 2271 | SCCON | 861007 | | 1201 | 861014 | 1330 | 861031 | 3 | | 7533.00 | 13.9 |
| 2287 | SCCON | 861021 | | 1335 | 861028 | 1445 | 861106 | 2 | 0.52 | 1051.00 | 31.4 |
| 2318 | SCCON | 861028 | | 1445 | 861103 | | 861121 | 3 | 0.91 | 1040.00 | 11.4 |
| 2320 | SCCON | 861110 | | 1047 | 861118 | 957 | 861124 | 3 | | 5462.00 | 12.3 |
| 2370 | SCCON | 861118 | | 950 | 861125 | 1000 | 861204 | | | 2034.00 | 15.0 |
| 2377 | SCCON | 861125 | | 1000 | 861202 | 1127 | 861209 | 5 | 1.07 | 1040.00 | 74.3 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2407 | SCCON | 861202 | | 1130 | 861209 | 1120 | 861219 | 1 | 0.20 | 390.00 | 5.5 |
| 2419 | SCCON | 861209 | | 1120 | 861216 | 827 | 861223 | 4 | 0.99 | 1686.00 | 14.5 |
| 2459 | SCCON | 861223 | | 1036 | 861230 | 1024 | 870108 | 2 | 0.44 | 760.00 | 19.7 |
| 2466 | SCCON | 861216 | | 1431 | 861223 | 1034 | 870109 | 2 | 0.06 | 113.00 | 41.0 |
| 2489 | SCCON | 861230 | | 1024 | 870108 | 1025 | 870114 | 3 | 0.68 | 1487.00 | 10.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2006 | SCCON | 860715 |  | 13 | 3399 | 9999.00 | 9999.00 | 75.0 | 3.61 |  |  |
| 2046 | SCCON | 860722 | 3.92 | 3 |  | 1.05 | 0.98 | 550.0 | 3.95 | 124.1 | 55.5 |
| 2053 | SCCON | 860729 | 3.99 | 3 |  | 1.03 | 0.97 | 550.0 | 4.00 | 113.9 | 52.0 |
| 2072 | SCCON | 860805 | 4.29 |  |  | 1.05 | 1.00 | 375.0 | 4.36 | 52.0 | 23.3 |
| 2098 | SCCON | 860812 | 4.63 | 3 |  | 0.99 | 1.16 | 300.0 | 4.64 | 29.1 | 13.4 |
| 2106 | SCCON | 860819 | 4.30 |  | 34 | 1.15 | 1.18 | 530.0 | 4.29 | 57.4 | 20.7 |
| 2126 | SCCON | 860826 | 4.32 |  |  | 1.10 | 1.18 | 500.0 | 4.31 | 53.4 | 19.9 |
| 2171 | SCCON | 860902 | 4.29 | 3 | 33 | 1.06 | 1.09 | 525.0 | 4.32 | 54.1 | 25.7 |
| 2187 | SCCON | 860909 |  | 3 | 99 | 9999.00 | 9999.00 | 7.0 | 5.96 |  |  |
| 2219 | SCCON | 860930 |  | 3 | 99 | 9999.00 | 9999.00 | 15.0 | 3.67 |  |  |
| 2256 | SCCON | 860922 |  | 3 | 3399 | 9999.00 | 9999.00 | 70.0 | 4.12 |  |  |
| 2271 | SCCON | 861007 | 4.62 |  |  | 1.05 | 1.18 | 550.0 | 4.64 | 27.6 | 10.8 |
| 2287 | SCCON | 861021 | 4.26 | 3 |  | 1.05 | 1.06 | 525.0 | 4.28 | 58.6 | 27.4 |
| 2318 | SCCON | 861028 | 4.79 |  |  | 1.02 | 1.15 | 550.0 | 4.79 | 23.9 | 9.2 |
| 2328 | SCCON | 861110 | 4.66 |  |  | 1.10 | 1.20 | 550.0 | 4.61 | 28.2 | 10.3 |
| 2370 | SCCON | 861118 | 4.60 |  |  | 0.96 | 1.15 | 550.0 | 4.55 | 32.7 | 13.4 |
| 2377 | SCCON | 861125 | 4.57 | 3 |  | 1.06 | 1.07 | 550.0 | 4.71 | 25.6 | 16.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN ueqiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2407 | SCCON | 861202 | 5.41 | 3 |  | 1.04 | 1.19 | 375.0 | 5.21 | 14.4 | 4.0 |
| 2419 | SCCON | 861209 | 4.48 |  |  | 1.14 | 1.13 | 550.0 | 4.56 | 33.8 | 12.3 |
| 2459 | SCCON | 861223 | 4.50 |  |  | 1.06 | 1.04 | 550.0 | 4.55 | 36.5 | 16.7 |
| 2466 | SCCON | 861216 | 4.10 | 3 |  | 1.14 | 1.08 | 70.0 | 4.19 |  | 36.7 |
| 2489 | SCCON | 861230 | 5.58 | 3 |  | 1.12 | 1.17 | 525.0 | 4.76 | 22.0 | 8.9 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2006 | SCCON | 860715 | | | | | | | | | |
| 2046 | SCCON | 860722 | 0.052 | 0.226 | -0.007 | 0.044 | -0.005 | 4.377 | 4.073 | 0.576 | 0.075 |
| | | | 2.725 | 6.377 | -0.158 | 0.459 | -0.059 | 70.463 | 42.360 | 31.921 | 3.272 |
| 2053 | SCCON | 860729 | 0.059 | 0.230 | -0.016 | -0.064 | -0.011 | 3.254 | 4.675 | 0.681 | 0.108 |
| | | | 3.103 | 6.487 | -0.353 | -0.670 | -0.144 | 52.390 | 48.619 | 37.738 | 4.698 |
| 2072 | SCCON | 860805 | 0.055 | 0.659 | -0.007 | -0.046 | -0.018 | 1.955 | 2.049 | 0.266 | 0.393 |
| | | | 2.869 | 18.584 | -0.145 | -0.479 | -0.229 | 31.479 | 21.310 | 14.726 | 17.088 |
| 2098 | SCCON | 860812 | 0.021 | 0.868 | -0.005 | -0.021 | -0.017 | 0.937 | 1.214 | 0.132 | 0.505 |
| | | | 1.128 | 24.481 | -0.100 | -0.224 | -0.218 | 15.093 | 12.626 | 7.334 | 21.963 |
| 2106 | SCCON | 860819 | 0.012 | 0.247 | -0.013 | -0.062 | -0.055 | 1.468 | 2.107 | 0.108 | 0.120 |
| | | | 0.634 | 6.964 | -0.279 | -0.655 | -0.692 | 23.637 | 21.909 | 5.988 | 5.239 |
| 2126 | SCCON | 860826 | 0.016 | 0.165 | -0.021 | -0.184 | -0.128 | 1.341 | 2.146 | 0.155 | 0.092 |
| | | | 0.834 | 4.645 | -0.467 | -1.935 | -1.599 | 21.583 | 22.320 | 8.610 | 4.010 |
| 2171 | SCCON | 860902 | 0.020 | 1.354 | -0.011 | 0.032 | -0.026 | 1.022 | 2.464 | 0.161 | 0.740 |
| | | | 1.061 | 38.196 | -0.243 | 0.332 | -0.325 | 16.462 | 25.621 | 8.927 | 32.207 |
| 2187 | SCCON | 860909 | | | | | | | | | |
| 2219 | SCCON | 860930 | | | | | | | | | |
| 2256 | SCCON | 860922 | | | | | | | | | |
| 2271 | SCCON | 861007 | -0.009 | 0.319 | -0.005 | 0.073 | -0.020 | 0.609 | 1.214 | 0.116 | 0.163 |
| | | | -0.459 | 9.003 | -0.112 | 0.767 | -0.255 | 9.310 | 12.629 | 6.441 | 7.099 |
| 2287 | SCCON | 861021 | 0.019 | 1.107 | -0.005 | -0.047 | -0.004 | 1.287 | 2.526 | 0.160 | 0.622 |
| | | | 1.015 | 31.214 | -0.105 | -0.497 | -0.054 | 20.720 | 26.268 | 8.839 | 27.056 |
| 2318 | SCCON | 861028 | -0.001 | 0.681 | -0.008 | 0.040 | -0.005 | 0.558 | 0.747 | 0.069 | 0.405 |
| | | | -0.048 | 19.201 | -0.180 | 0.425 | -0.065 | 8.986 | 7.774 | 3.846 | 17.633 |
| 2328 | SCCON | 861110 | -0.002 | 0.322 | 0.020 | 0.042 | -0.009 | 0.539 | 1.029 | 0.066 | 0.162 |
| | | | -0.085 | 9.079 | 0.430 | 0.442 | -0.115 | 8.682 | 10.706 | 3.633 | 7.027 |
| 2370 | SCCON | 861118 | -0.001 | 0.672 | -0.009 | 0.018 | -0.011 | 0.591 | 1.200 | 0.066 | 0.393 |
| | | | -0.037 | 18.955 | -0.205 | 0.184 | -0.139 | 9.517 | 12.477 | 3.646 | 17.098 |
| 2377 | SCCON | 861125 | 0.009 | 1.130 | -0.002 | 0.287 | -0.031 | 0.790 | 1.732 | 0.085 | 0.630 |
| | | | 0.463 | 31.872 | -0.045 | 3.012 | -0.391 | 12.711 | 18.013 | 4.703 | 27.384 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2407 | SCCON | 861202 | -0.004 | 0.082 | 0.009 | 0.065 | -0.037 | 0.391 | 0.495 | 0.203 | 0.042 |
| | | | -0.216 | 2.319 | 0.197 | 0.684 | -0.458 | 6.294 | 5.144 | 11.247 | 1.826 |
| 2419 | SCCON | 861209 | -0.004 | 0.226 | -0.007 | 0.092 | -0.048 | 0.581 | 1.323 | 0.108 | 0.104 |
| | | | -0.234 | 6.367 | -0.157 | 0.965 | -0.601 | 9.362 | 13.756 | 5.994 | 4.540 |
| 2459 | SCCON | 861223 | -0.010 | 0.858 | -0.010 | -0.034 | -0.009 | 0.805 | 1.595 | 0.165 | 0.454 |
| | | | -0.529 | 24.190 | -0.221 | -0.360 | -0.112 | 12.964 | 16.585 | 9.141 | 19.744 |
| 2466 | SCCON | 861216 | 0.033 | 1.027 | -0.009 | 0.058 | -0.010 | 2.786 | 4.086 | 0.675 | 0.523 |
| | | | 1.720 | 28.972 | -0.194 | 0.609 | -0.126 | 44.855 | 42.495 | 37.406 | 22.743 |
| 2489 | SCCON | 861230 | -0.004 | 0.148 | -0.007 | 0.024 | 0.135 | 0.659 | 1.248 | 0.058 | 0.071 |
| | | | -0.201 | 4.177 | -0.144 | 0.247 | 1.690 | 10.610 | 12.978 | 3.221 | 3.068 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2006 | SCCON | 860715 | | | |
| 2046 | SCCON | 860722 | 0.052<br>1.323 | 0.158<br>3.942 | 0.023<br>0.966 |
| 2053 | SCCON | 860729 | 0.045<br>1.140 | 0.192<br>4.798 | 0.030<br>1.253 |
| 2072 | SCCON | 860805 | 0.192<br>4.917 | 0.151<br>3.771 | 0.048<br>1.961 |
| 2098 | SCCON | 860812 | 0.170<br>4.350 | 0.118<br>2.939 | 0.058<br>2.370 |
| 2106 | SCCON | 860819 | 0.016<br>0.405 | 0.032<br>0.804 | 0.018<br>0.725 |
| 2126 | SCCON | 860826 | 0.066<br>1.682 | 0.019<br>0.486 | 0.016<br>0.647 |
| 2171 | SCCON | 860902 | 0.122<br>3.114 | 0.064<br>1.603 | 0.085<br>3.497 |
| 2187 | SCCON | 860909 | | | |
| 2219 | SCCON | 860930 | | | |
| 2256 | SCCON | 860922 | | | |
| 2271 | SCCON | 861007 | 0.043<br>1.103 | 0.081<br>2.026 | 0.033<br>1.361 |
| 2287 | SCCON | 861021 | 0.112<br>2.866 | 0.080<br>1.996 | 0.069<br>2.822 |
| 2318 | SCCON | 861028 | 0.042<br>1.075 | 0.033<br>0.833 | 0.049<br>2.024 |
| 2328 | SCCON | 861110 | 0.029<br>0.746 | -0.015<br>-0.379 | 0.020<br>0.826 |
| 2370 | SCCON | 861118 | 0.054<br>1.375 | 0.052<br>1.286 | 0.047<br>1.936 |
| 2377 | SCCON | 861125 | 0.145<br>3.703 | 0.342<br>8.544 | 0.156<br>6.412 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2407 | SCCON | 861202 | 0.032 | -0.017 | 0.003 |
| | | | 0.812 | -0.414 | 0.135 |
| 2419 | SCCON | 861209 | 0.022 | 0.023 | 0.014 |
| | | | 0.560 | 0.566 | 0.556 |
| 2459 | SCCON | 861223 | 0.091 | 0.051 | 0.057 |
| | | | 2.331 | 1.267 | 2.349 |
| 2466 | SCCON | 861216 | 0.254 | 0.126 | 0.066 |
| | | | 6.490 | 3.153 | 2.734 |
| 2489 | SCCON | 861230 | 0.044 | 0.095 | 0.112 |
| | | | 1.115 | 2.373 | 4.613 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1561 | SCDEL | 860114 | | 1350 | 860121 | 1410 | 860128 | | | 2136.00 | |
| 1627 | SCDEL | 860204 | | 900 | 860211 | 1600 | 860221 | | | 1256.00 | 25.2 |
| 1647 | SCDEL | 860211 | | 1600 | 860218 | 1400 | 860227 | | | 60.00 | |
| 1703 | SCDEL | 860311 | | 1550 | 860318 | 1615 | 860325 | | | 1790.00 | 11.8 |
| 1716 | SCDEL | 860304 | | 1430 | 860311 | 1550 | 860327 | | | 64.00 | |
| 1738 | SCDEL | 860318 | | 1615 | 860325 | 1335 | 860409 | | | 1972.00 | 11.2 |
| 1754 | SCDEL | 860401 | | 1400 | 860408 | 1330 | 860415 | | | 150.00 | |
| 1782 | SCDEL | 860408 | | 1330 | 860415 | 1130 | 860425 | | | 20.00 | |
| 1800 | SCDEL | 860415 | | 1130 | 860422 | 815 | 860501 | | | 1098.00 | 18.3 |
| 1825 | SCDEL | 860422 | | 815 | 860429 | 1500 | 860508 | | | 44.00 | |
| 1891 | SCDEL | 860527 | | 1515 | 860605 | 1200 | 860610 | | | 867.00 | 21.8 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1561 | SCDEL | 860114 | 4.83 | | | 0.92 | 1.40 | 525.000 | 4.82 | 19.80 | 5.3 |
| 1627 | SCDEL | 860204 | 4.30 | | | 1.04 | 1.08 | 525.000 | 4.31 | 53.45 | 24.6 |
| 1647 | SCDEL | 860211 | | 3 | | 1.03 | 1.03 | 60.000 | 3.91 | 130.78 | 63.8 |
| 1703 | SCDEL | 860311 | 4.77 | | | 1.07 | 1.07 | 550.000 | 4.76 | 25.05 | 10.0 |
| 1716 | SCDEL | 860304 | | 3 | 223233 | 1.06 | 1.01 | 40.000 | 4.04 | | 123.6 |
| 1738 | SCDEL | 860318 | 4.80 | | | 1.02 | 1.15 | 525.000 | 4.80 | 21.14 | 9.2 |
| 1754 | SCDEL | 860401 | | 3 | | 0.96 | 1.08 | 150.000 | 4.85 | 19.51 | 9.5 |
| 1782 | SCDEL | 860408 | | | | 0.98 | 1.17 | | 4.47 | | 30.6 |
| 1800 | SCDEL | 860415 | 4.53 | | | 1.03 | 1.09 | 525.000 | 4.54 | 35.11 | 16.5 |
| 1825 | SCDEL | 860422 | | 3 | | 1.10 | 0.98 | 40.000 | 4.11 | | 42.8 |
| 1891 | SCDEL | 860527 | 4.26 | | | 1.01 | 1.06 | 540.000 | 4.41 | 46.60 | 20.9 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1561 | SCDEL | 860114 | 0.006 | 0.190 | -0.028 | -0.032 | -0.018 | 0.229 | 0.594 | 0.055 | 0.109 |
| | | | 0.334 | 5.365 | -0.602 | -0.339 | -0.230 | 3.682 | 6.182 | 3.062 | 4.756 |
| 1627 | SCDEL | 860204 | 0.013 | 0.435 | -0.011 | 0.037 | -0.045 | 1.821 | 2.393 | 0.387 | 0.252 |
| | | | 0.706 | 12.263 | -0.238 | 0.384 | -0.566 | 29.318 | 24.883 | 21.444 | 10.968 |
| 1647 | SCDEL | 860211 | 0.053 | 0.685 | -0.025 | -0.048 | 0.065 | 4.539 | 6.060 | 0.865 | 0.491 |
| | | | 2.770 | 19.312 | -0.534 | -0.507 | 0.808 | 73.086 | 63.027 | 47.904 | 21.367 |
| 1703 | SCDEL | 860311 | 0.009 | 0.202 | -0.011 | 0.051 | -0.069 | 0.857 | 1.026 | 0.223 | 0.138 |
| | | | 0.484 | 5.708 | -0.234 | 0.537 | -0.868 | 13.790 | 10.674 | 12.334 | 6.008 |
| 1716 | SCDEL | 860304 | 0.107 | 5.706 | -0.012 | 0.451 | -0.068 | 14.079 | 15.531 | 4.939 | 3.515 |
| | | | 5.649 | 160.917 | -0.269 | 4.733 | -0.851 | 226.665 | 161.527 | 273.623 | 152.901 |
| 1738 | SCDEL | 860318 | 0.009 | 0.226 | -0.012 | -0.021 | -0.045 | 0.695 | 1.224 | 0.232 | 0.124 |
| | | | 0.481 | 6.380 | -0.267 | -0.223 | -0.564 | 11.184 | 12.728 | 12.836 | 5.381 |
| 1754 | SCDEL | 860401 | 0.011 | 0.194 | -0.016 | -0.031 | -0.047 | 0.984 | 1.067 | 0.216 | 0.139 |
| | | | 0.605 | 5.466 | -0.341 | -0.329 | -0.585 | 15.841 | 11.092 | 11.973 | 6.034 |
| 1782 | SCDEL | 860408 | 0.106 | 1.098 | -0.006 | 0.108 | -0.010 | 4.541 | 3.713 | 0.792 | 0.856 |
| | | | 5.602 | 30.952 | -0.135 | 1.135 | -0.120 | 73.103 | 38.618 | 43.850 | 37.247 |
| 1800 | SCDEL | 860415 | 0.015 | 0.484 | -0.013 | 0.014 | -0.007 | 1.050 | 1.873 | 0.322 | 0.320 |
| | | | 0.768 | 13.649 | -0.285 | 0.149 | -0.093 | 16.901 | 19.475 | 17.843 | 13.906 |
| 1825 | SCDEL | 860422 | 0.038 | 0.759 | -0.017 | 0.013 | 0.028 | 2.730 | 4.078 | 0.139 | 0.493 |
| | | | 2.011 | 21.403 | -0.367 | 0.138 | 0.350 | 43.948 | 42.413 | 7.680 | 21.450 |
| 1891 | SCDEL | 860527 | 0.030 | 0.368 | -0.005 | -0.017 | -0.013 | 1.540 | 2.065 | 0.321 | 0.208 |
| | | | 1.584 | 10.368 | -0.108 | -0.179 | -0.167 | 24.792 | 21.472 | 17.785 | 9.037 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1561 | SCDEL | 860114 | 0.008 | -0.046 | 0.009 |
| | | | 0.210 | -1.156 | 0.364 |
| 1627 | SCDEL | 860204 | 0.043 | 0.100 | 0.029 |
| | | | 1.110 | 2.489 | 1.187 |
| 1647 | SCDEL | 860211 | 0.193 | 0.319 | 0.056 |
| | | | 4.920 | 7.956 | 2.313 |
| 1703 | SCDEL | 860311 | 0.030 | 0.050 | 0.018 |
| | | | 0.765 | 1.256 | 0.728 |
| 1716 | SCDEL | 860304 | 0.683 | 2.247 | 0.534 |
| | | | 17.479 | 56.064 | 21.962 |
| 1738 | SCDEL | 860318 | 0.036 | 0.121 | 0.020 |
| | | | 0.929 | 3.029 | 0.820 |
| 1754 | SCDEL | 860401 | 0.203 | 0.116 | 0.034 |
| | | | 5.197 | 2.889 | 1.412 |
| 1782 | SCDEL | 860408 | 0.458 | 1.024 | 0.198 |
| | | | 11.705 | 25.545 | 8.136 |
| 1800 | SCDEL | 860415 | 0.040 | 0.081 | 0.043 |
| | | | 1.030 | 2.014 | 1.753 |
| 1825 | SCDEL | 860422 | 0.276 | 0.385 | 0.075 |
| | | | 7.062 | 9.614 | 3.100 |
| 1891 | SCDEL | 860527 | 0.053 | 0.167 | 0.043 |
| | | | 1.352 | 4.170 | 1.770 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1920 | SCDEL | 860605 | | 1200 | 860610 | 1430 | 860617 | | | 3418.00 | 15.5 |
| 1954 | SCDEL | 860617 | | 1230 | 860624 | 1100 | 860703 | | | 347.00 | 69.4 |
| 1965 | SCDEL | 860624 | | 1100 | 860701 | 930 | 860711 | | | 2895.00 | 30.0 |
| 1970 | SCDEL | 860701 | | 730 | 860708 | 1300 | 860714 | | | 106.00 | |
| 2047 | SCDEL | 860722 | | 1300 | 860729 | 1333 | 860808 | | | 2199.00 | 61.6 |
| 2054 | SCDEL | 860729 | | 1300 | 860805 | 1330 | 860813 | | | 372.00 | 53.6 |
| 2073 | SCDEL | 860805 | | 1330 | 860812 | 1400 | 860819 | | | 1902.00 | 37.5 |
| 2099 | SCDEL | 860812 | | 1400 | 860819 | 830 | 860828 | | | 5823.00 | 11.3 |
| 2127 | SCDEL | 860819 | | 630 | 860826 | 1400 | 860912 | | | 1250.00 | 22.3 |
| 2188 | SCDEL | 860909 | | 1430 | 860916 | 1400 | 860926 | | | 100.00 | |
| 2201 | SCDEL | 860826 | | 1400 | 860909 | 1430 | 861003 | | | 5566.00 | 10.1 |
| 2220 | SCDEL | 860930 | | 1430 | 861007 | 1520 | 861016 | | | 16.00 | |
| 2257 | SCDEL | 861006 | | 1520 | 861014 | 1500 | 861029 | | | 2914.00 | 25.0 |
| 2264 | SCDEL | 860916 | | 1400 | 860923 | 1430 | 861030 | | | 128.00 | |
| 2280 | SCDEL | 861021 | | 1450 | 861028 | 1445 | 861104 | | | 1348.00 | 30.9 |
| 2298 | SCDEL | 861028 | | 1445 | 861105 | 1000 | 861112 | | | 357.00 | 32.7 |
| 2319 | SCDEL | 861105 | | 1000 | 861112 | 1530 | 861121 | | | 985.00 | 42.8 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2337 | SCDEL | 861112 | | 1530 | 861118 | 1500 | 861125 | | | 1159.00 | 18.8 |
| 2355 | SCDEL | 861118 | | 1510 | 861125 | 1132 | 861201 | | | 3571.00 | 19.9 |
| 2378 | SCDEL | 861125 | | 1134 | 861202 | 1000 | 861209 | | | 2585.00 | 24.6 |
| 2404 | SCDEL | 861202 | | 1000 | 861209 | 1530 | 861218 | | | 642.00 | 18.1 |
| 2418 | SCDEL | 861209 | | 1530 | 861216 | 1000 | 861223 | | | 1299.00 | 18.2 |
| 2451 | SCDEL | 861223 | | 830 | 861230 | 845 | 870106 | | | 2262.00 | 10.9 |
| 2465 | SCDEL | 861216 | | 1000 | 861223 | 830 | 870109 | | | 20.00 | |
| 2490 | SCDEL | 861230 | | 845 | 870106 | 845 | 870114 | | | 2061.00 | 13.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAM uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1920 | SCDEL | 860605 | 4.46 | | | 0.99 | 1.11 | 550.0 | 4.62 | 27.1 | 10.4 |
| 1954 | SCDEL | 860617 | 3.86 | | | 1.07 | 0.97 | 300.0 | 3.86 | 151.5 | 67.7 |
| 1965 | SCDEL | 860624 | 4.26 | 1 | | 1.00 | 1.08 | 550.0 | 4.37 | 50.6 | 20.4 |
| 1970 | SCDEL | 860701 | | 3 | | 1.04 | 1.02 | 100.0 | 4.09 | 91.4 | 40.3 |
| 2047 | SCDEL | 860722 | 3.91 | | | 1.04 | 0.98 | 550.0 | 3.92 | 134.1 | 58.3 |
| 2054 | SCDEL | 860729 | 3.97 | | | 1.05 | 0.97 | 150.0 | 3.98 | 118.0 | 52.1 |
| 2073 | SCDEL | 860805 | 4.08 | | | 1.04 | 1.12 | 550.0 | 4.11 | 88.3 | 31.9 |
| 2099 | SCDEL | 860812 | 4.67 | | | 1.07 | 1.30 | 550.0 | 4.62 | 26.9 | 8.4 |
| 2127 | SCDEL | 860819 | 4.35 | | | 1.09 | 1.14 | 550.0 | 4.36 | 48.6 | 18.5 |
| 2188 | SCDEL | 860909 | | | | 1.13 | 1.20 | 100.0 | 4.83 | 19.9 | 6.3 |
| 2201 | SCDEL | 860826 | 4.50 | | 21 | 0.99 | 1.14 | 550.0 | 4.48 | 38.8 | 15.0 |
| 2220 | SCDEL | 860930 | | | | 0.95 | 1.08 | 12.0 | 4.03 | | 48.4 |
| 2257 | SCDEL | 861006 | 4.30 | 3 | | 1.07 | 1.11 | 525.0 | 4.32 | 53.9 | 20.8 |
| 2264 | SCDEL | 860916 | | 3 | | 1.08 | 1.01 | 120.0 | 4.01 | 107.1 | 47.6 |
| 2280 | SCDEL | 861021 | 4.21 | | | 1.08 | 1.09 | 550.0 | 4.23 | 67.9 | 27.3 |
| 2298 | SCDEL | 861028 | 4.17 | | | 1.05 | 1.05 | 325.0 | 4.19 | 71.3 | 30.0 |
| 2319 | SCDEL | 861105 | 4.06 | | | 1.06 | 1.02 | 550.0 | 4.11 | 84.0 | 39.9 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2337 | SCDEL | 861112 | 4.47 | | | 1.11 | 1.12 | 550.0 | 4.41 | 43.6 | 16.2 |
| 2355 | SCDEL | 861118 | 4.38 | | | 1.12 | 1.11 | 550.0 | 4.43 | 43.0 | 17.0 |
| 2378 | SCDEL | 861125 | 4.36 | 3 | | 1.01 | 1.08 | 550.0 | 4.34 | 50.1 | 22.9 |
| 2404 | SCDEL | 861202 | 4.48 | | | 1.02 | 1.13 | 550.0 | 4.57 | 32.2 | 14.7 |
| 2418 | SCDEL | 861209 | 4.47 | | | 1.06 | 1.10 | 550.0 | 4.49 | 37.8 | 16.8 |
| 2451 | SCDEL | 861223 | 4.65 | | | 1.00 | 1.20 | 550.0 | 4.69 | 25.3 | 8.7 |
| 2465 | SCDEL | 861216 | | | | 1.09 | 1.14 | 20.0 | 3.53 | | 122.3 |
| 2490 | SCDEL | 861230 | 4.41 | | | 1.08 | 1.17 | 550.0 | 4.44 | 41.2 | 14.0 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1920 | SCDEL | 860605 | 0.008 | 0.029 | 0.020 | 0.023 | -0.007 | 0.426 | 1.132 | 0.142 | 0.013 |
| | | | 0.427 | 0.804 | 0.437 | 0.237 | -0.094 | 6.865 | 11.773 | 7.844 | 0.567 |
| 1954 | SCDEL | 860617 | 0.063 | 0.184 | -0.002 | 0.031 | -0.017 | 2.670 | 6.820 | 0.515 | 0.049 |
| | | | 3.322 | 5.180 | -0.036 | 0.329 | -0.217 | 42.993 | 70.928 | 28.520 | 2.129 |
| 1965 | SCDEL | 860624 | 0.014 | 0.057 | -0.006 | 0.033 | -0.003 | 1.159 | 2.289 | 0.446 | 0.015 |
| | | | 0.719 | 1.596 | -0.131 | 0.350 | -0.039 | 18.667 | 23.804 | 24.711 | 0.673 |
| 1970 | SCDEL | 860701 | 0.076 | 0.394 | -0.005 | 0.041 | -0.014 | 2.687 | 3.537 | 0.337 | 0.266 |
| | | | 4.001 | 11.104 | -0.116 | 0.435 | -0.179 | 43.267 | 36.786 | 18.695 | 11.557 |
| 2047 | SCDEL | 860722 | 0.044 | 0.152 | -0.007 | 0.039 | -0.005 | 2.738 | 5.464 | 0.567 | 0.055 |
| | | | 2.314 | 4.276 | -0.151 | 0.408 | -0.060 | 44.076 | 56.828 | 31.415 | 2.396 |
| 2054 | SCDEL | 860729 | 0.072 | 0.150 | -0.015 | -0.065 | -0.011 | 2.552 | 4.884 | 0.416 | 0.063 |
| | | | 3.765 | 4.236 | -0.333 | -0.680 | -0.141 | 41.081 | 50.790 | 23.074 | 2.735 |
| 2073 | SCDEL | 860805 | 0.030 | 0.209 | -0.006 | -0.045 | -0.019 | 2.109 | 2.833 | 0.233 | 0.079 |
| | | | 1.585 | 5.883 | -0.141 | -0.469 | -0.233 | 33.962 | 29.462 | 12.905 | 3.445 |
| 2099 | SCDEL | 860812 | 0.010 | 0.072 | -0.005 | 0.061 | -0.017 | 0.450 | 0.912 | 0.049 | 0.037 |
| | | | 0.517 | 2.030 | -0.101 | 0.635 | -0.215 | 7.248 | 9.486 | 2.688 | 1.612 |
| 2127 | SCDEL | 860819 | 0.026 | 0.087 | -0.022 | -0.196 | -0.135 | 1.409 | 1.861 | 0.220 | 0.044 |
| | | | 1.356 | 2.450 | -0.485 | -2.056 | -1.685 | 22.681 | 19.358 | 12.196 | 1.906 |
| 2188 | SCDEL | 860909 | 0.042 | 0.164 | -0.009 | 0.030 | -0.014 | 0.405 | 0.617 | -0.002 | 0.109 |
| | | | 2.194 | 4.627 | -0.193 | 0.316 | -0.179 | 6.516 | 6.413 | -0.109 | 4.729 |
| 2201 | SCDEL | 860826 | 0.009 | 0.342 | -0.021 | 0.034 | -0.013 | 0.830 | 1.499 | 0.157 | 0.191 |
| | | | 0.484 | 9.640 | -0.466 | 0.354 | -0.161 | 13.357 | 15.591 | 8.712 | 8.308 |
| 2220 | SCDEL | 860930 | 0.121 | 0.583 | 0.000 | 0.263 | 0.000 | 2.940 | 5.016 | 0.218 | 0.368 |
| | | | 6.346 | 16.449 | 0.000 | 2.762 | 0.000 | 47.330 | 52.163 | 12.057 | 15.998 |
| 2257 | SCDEL | 861006 | 0.013 | 0.204 | 0.000 | 0.027 | 0.000 | 1.399 | 1.927 | 0.195 | 0.099 |
| | | | 0.679 | 5.765 | 0.000 | 0.280 | 0.000 | 22.527 | 20.043 | 10.801 | 4.298 |
| 2264 | SCDEL | 860916 | 0.057 | 0.771 | -0.006 | 0.068 | -0.019 | 4.231 | 2.952 | 0.139 | 0.511 |
| | | | 2.998 | 21.744 | -0.141 | 0.710 | -0.236 | 68.122 | 30.704 | 7.716 | 22.219 |
| 2280 | SCDEL | 861021 | 0.021 | 0.541 | -0.014 | 0.081 | -0.060 | 1.638 | 2.511 | 0.217 | 0.287 |
| | | | 1.085 | 15.258 | -0.295 | 0.850 | -0.751 | 26.374 | 26.110 | 12.011 | 12.478 |
| 2298 | SCDEL | 861028 | 0.029 | 0.522 | -0.022 | -0.025 | -0.073 | 1.795 | 2.505 | 0.134 | 0.296 |
| | | | 1.511 | 14.728 | -0.481 | -0.266 | -0.918 | 28.906 | 26.055 | 7.450 | 12.867 |
| 2319 | SCDEL | 861105 | 0.023 | 0.913 | 0.032 | 0.048 | -0.006 | 2.649 | 3.238 | 0.316 | 0.598 |
| | | | 1.195 | 25.740 | 0.697 | 0.506 | -0.069 | 42.652 | 33.677 | 17.520 | 26.014 |

| ID | STN | DD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2337 | SCDEL | 861112 | 0.014 | 0.179 | 0.041 | 0.043 | -0.013 | 0.805 | 1.608 | 0.110 | 0.067 |
|  |  |  | 0.716 | 5.042 | 0.900 | 0.449 | -0.157 | 12.959 | 16.728 | 6.086 | 2.911 |
| 2355 | SCDEL | 861118 | -0.003 | 0.294 | 0.020 | 0.228 | -0.013 | 1.031 | 1.467 | 0.139 | 0.174 |
|  |  |  | -0.154 | 8.303 | 0.444 | 2.394 | -0.160 | 16.594 | 15.259 | 7.692 | 7.579 |
| 2378 | SCDEL | 861125 | -0.001 | 0.557 | 0.018 | -0.015 | -0.017 | 1.625 | 2.060 | 0.350 | 0.317 |
|  |  |  | -0.027 | 15.703 | 0.393 | -0.154 | -0.210 | 26.164 | 21.423 | 19.373 | 13.779 |
| 2404 | SCDEL | 861202 | -0.004 | 0.895 | -0.005 | 0.060 | -0.036 | 0.737 | 1.330 | 0.150 | 0.513 |
|  |  |  | -0.221 | 25.244 | -0.106 | 0.633 | -0.452 | 11.865 | 13.829 | 8.318 | 22.298 |
| 2418 | SCDEL | 861209 | -0.004 | 0.347 | -0.007 | 0.080 | -0.047 | 1.266 | 1.713 | 0.209 | 0.198 |
|  |  |  | -0.231 | 9.773 | -0.151 | 0.841 | -0.588 | 20.380 | 17.811 | 11.596 | 8.591 |
| 2451 | SCDEL | 861223 | -0.007 | 0.193 | -0.010 | -0.032 | -0.054 | 0.597 | 0.880 | 0.106 | 0.096 |
|  |  |  | -0.357 | 5.448 | -0.219 | -0.332 | -0.676 | 9.606 | 9.153 | 5.865 | 4.196 |
| 2465 | SCDEL | 861216 | 0.000 | 0.972 | 0.000 | 0.056 | 0.000 | 10.588 | 10.362 | 0.715 | 0.654 |
|  |  |  | 0.001 | 27.421 | 0.000 | 0.585 | 0.000 | 170.462 | 107.768 | 39.597 | 28.447 |
| 2490 | SCDEL | 861230 | -0.004 | 0.123 | -0.007 | 0.018 | 0.210 | 0.896 | 1.242 | 0.062 | 0.053 |
|  |  |  | -0.209 | 3.463 | -0.150 | 0.187 | 2.633 | 14.419 | 12.920 | 3.456 | 2.295 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1920 | SCDEL | 860605 | 0.009 | 0.017 | -0.001 |
| | | | 0.227 | 0.424 | -0.048 |
| 1954 | SCDEL | 860617 | 0.017 | 0.207 | 0.035 |
| | | | 0.425 | 5.171 | 1.445 |
| 1965 | SCDEL | 860624 | 0.010 | 0.024 | 0.004 |
| | | | 0.266 | 0.606 | 0.169 |
| 1970 | SCDEL | 860701 | 0.052 | 0.227 | 0.054 |
| | | | 1.337 | 5.665 | 2.207 |
| 2047 | SCDEL | 860722 | 0.024 | 0.098 | 0.011 |
| | | | 0.614 | 2.438 | 0.472 |
| 2054 | SCDEL | 860729 | 0.043 | 0.232 | 0.024 |
| | | | 1.088 | 5.790 | 0.991 |
| 2073 | SCDEL | 860805 | 0.023 | 0.035 | 0.012 |
| | | | 0.594 | 0.886 | 0.494 |
| 2099 | SCDEL | 860812 | 0.012 | -0.017 | 0.005 |
| | | | 0.297 | -0.436 | 0.193 |
| 2127 | SCDEL | 860819 | 0.026 | 0.022 | 0.007 |
| | | | 0.673 | 0.548 | 0.300 |
| 2188 | SCDEL | 860909 | 0.032 | 0.040 | 0.021 |
| | | | 0.807 | 0.998 | 0.857 |
| 2201 | SCDEL | 860826 | 0.014 | 0.080 | 0.025 |
| | | | 0.364 | 1.994 | 1.035 |
| 2220 | SCDEL | 860930 | 0.249 | 1.118 | 0.114 |
| | | | 6.380 | 27.886 | 4.688 |
| 2257 | SCDEL | 861006 | 0.018 | 0.026 | 0.013 |
| | | | 0.466 | 0.660 | 0.517 |
| 2264 | SCDEL | 860916 | 0.094 | 0.191 | 0.074 |
| | | | 2.415 | 4.773 | 3.026 |
| 2280 | SCDEL | 861021 | 0.024 | 0.085 | 0.036 |
| | | | 0.602 | 2.131 | 1.495 |
| 2298 | SCDEL | 861028 | 0.059 | 0.074 | 0.036 |
| | | | 1.503 | 1.844 | 1.472 |
| 2319 | SCDEL | 861105 | 0.059 | 0.073 | 0.071 |
| | | | 1.519 | 1.820 | 2.930 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2337 | SCDEL | 861112 | 0.019 | 0.003 | 0.009 |
| | | | 0.491 | 0.071 | 0.364 |
| 2355 | SCDEL | 861118 | 0.032 | 0.037 | 0.021 |
| | | | 0.817 | 0.912 | 0.871 |
| 2378 | SCDEL | 861125 | 0.027 | 0.043 | 0.039 |
| | | | 0.684 | 1.084 | 1.612 |
| 2404 | SCDEL | 861202 | 0.063 | 0.038 | 0.060 |
| | | | 1.606 | 0.948 | 2.450 |
| 2418 | SCDEL | 861209 | 0.265 | 0.072 | 0.021 |
| | | | 6.788 | 1.799 | 0.856 |
| 2451 | SCDEL | 861223 | 0.015 | 0.034 | 0.013 |
| | | | 0.385 | 0.859 | 0.534 |
| 2465 | SCDEL | 861216 | 0.105 | 0.221 | 0.095 |
| | | | 2.695 | 5.511 | 3.895 |
| 2490 | SCDEL | 861230 | 0.007 | 0.016 | 0.008 |
| | | | 0.185 | 0.390 | 0.318 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1562 | SCLON | 860114 | | 1010 | 860121 | 900 | 860128 | | | 32.00 | |
| 1592 | SCLON | 860121 | | 900 | 860128 | 950 | 860206 | | | 90.00 | |
| 1648 | SCLON | 860211 | | 900 | 860218 | 925 | 860227 | | | 37.00 | |
| 1717 | SCLON | 860225 | | 920 | 860304 | 1000 | 860327 | | | 14.30 | |
| 1718 | SCLON | 860304 | | 1000 | 860311 | 920 | 860327 | | | 337.00 | 54.1 |
| 1719 | SCLON | 860311 | | 920 | 860318 | 900 | 860327 | | | 1929.00 | 14.6 |
| 1739 | SCLON | 860318 | | 900 | 860325 | 1005 | 860409 | | | 81.00 | |
| 1764 | SCLON | 860401 | | 940 | 860408 | 1515 | 860416 | | | 270.00 | 34.2 |
| 1801 | SCLON | 860415 | | 950 | 860422 | 940 | 860501 | | | 10.00 | |
| 1810 | SCLON | 860422 | | 940 | 860429 | 945 | 860507 | | | 332.00 | 43.9 |
| 1844 | SCLON | 860506 | | 945 | 860513 | 1000 | 860523 | | | 60.00 | |
| 1865 | SCLON | 860513 | | 1000 | 860520 | 1000 | 860602 | | | 46.00 | |
| 1870 | SCLON | 860520 | | 1000 | 860527 | 950 | 860603 | | | 76.00 | |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1562 | SCLON | 860114 | | 3 | | 1.10 | 1.14 | 31.000 | 4.17 | | 43.2 |
| 1592 | SCLON | 860121 | | 3 | 99 | 9999.00 | 9999.00 | 90.000 | 4.09 | 85.21 | |
| 1648 | SCLON | 860211 | | | | 1.11 | 1.01 | 30.000 | 4.43 | | 25.9 |
| 1717 | SCLON | 860225 | | | | 1.30 | 1.08 | 10.000 | 4.25 | | 38.2 |
| 1718 | SCLON | 860304 | 4.21 | | | 1.06 | 1.00 | 300.000 | 4.13 | 87.61 | 51.5 |
| 1719 | SCLON | 860311 | 4.66 | | 22 | 1.06 | 1.06 | 550.000 | 4.63 | 29.80 | 12.9 |
| 1739 | SCLON | 860318 | | | | 1.07 | 1.02 | 50.000 | 4.43 | | 32.4 |
| 1764 | SCLON | 860401 | 4.28 | 3 | 33 | 0.96 | 1.09 | 210.000 | 4.55 | 34.75 | 25.4 |
| 1801 | SCLON | 860415 | | | | 1.09 | 1.15 | 7.000 | 4.52 | | 28.3 |
| 1810 | SCLON | 860422 | 4.12 | 12 | 3399 | 9999.00 | 9999.00 | 300.000 | 4.16 | | |
| 1844 | SCLON | 860506 | | | | 1.05 | 1.01 | 150.000 | 4.27 | 63.30 | 29.2 |
| 1865 | SCLON | 860513 | | | | 0.87 | 1.06 | 40.000 | 4.31 | | 25.0 |
| 1870 | SCLON | 860520 | | 3 | 99 | 9999.00 | 9999.00 | 70.000 | 4.71 | | |

| ID | STN | BD | F | CL | NO2 | PO4 | BR | NO3 | SO4 | NH4 | NA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l | umoles/l |
| 1562 | SCLON | 860114 | -0.090 | 2.757 | -0.008 | -0.518 | -0.018 | 4.295 | 4.109 | 0.521 | 1.804 |
| | | | -4.763 | 77.740 | -0.163 | -5.443 | -0.228 | 69.148 | 42.733 | 28.845 | 78.467 |
| 1592 | SCLON | 860121 | | | | | | | | | |
| 1648 | SCLON | 860211 | 0.020 | 0.365 | -0.025 | -0.050 | -0.065 | 2.039 | 3.495 | 0.480 | 0.397 |
| | | | 1.049 | 10.299 | -0.551 | -0.528 | -0.808 | 32.826 | 36.345 | 26.596 | 17.291 |
| 1717 | SCLON | 860225 | 0.068 | 0.262 | -0.012 | 0.556 | -0.068 | 2.579 | 6.274 | 0.841 | 0.434 |
| | | | 3.598 | 7.400 | -0.271 | 5.836 | -0.850 | 41.514 | 65.254 | 46.598 | 18.899 |
| 1718 | SCLON | 860304 | 0.035 | 2.152 | -0.013 | -0.034 | 0.083 | 3.135 | 5.532 | 0.921 | 1.264 |
| | | | 1.836 | 60.700 | -0.274 | -0.355 | 1.041 | 50.467 | 57.530 | 51.050 | 54.967 |
| 1719 | SCLON | 860311 | 0.011 | 0.232 | -0.013 | 0.036 | -0.068 | 0.776 | 1.472 | 0.196 | 0.149 |
| | | | 0.579 | 6.556 | -0.276 | 0.380 | -0.848 | 12.492 | 15.306 | 10.848 | 6.492 |
| 1739 | SCLON | 860318 | 0.035 | 1.357 | -0.012 | -0.021 | -0.045 | 2.978 | 3.951 | 0.504 | 0.964 |
| | | | 1.843 | 38.271 | -0.261 | -0.219 | -0.567 | 47.938 | 41.092 | 27.897 | 41.929 |
| 1764 | SCLON | 860401 | 0.019 | 0.541 | -0.032 | -0.034 | -0.040 | 2.432 | 3.915 | 0.894 | 0.463 |
| | | | 0.992 | 15.265 | -0.686 | -0.359 | -0.497 | 39.163 | 40.715 | 49.503 | 20.126 |
| 1801 | SCLON | 860415 | 0.190 | 1.084 | -0.013 | 0.240 | -0.007 | 3.360 | 3.877 | 0.809 | 0.852 |
| | | | 9.999 | 30.566 | -0.291 | 2.516 | -0.091 | 54.101 | 40.316 | 44.824 | 37.058 |
| 1810 | SCLON | 860422 | | | | | | | | | |
| 1844 | SCLON | 860506 | 0.039 | 0.309 | -0.009 | 0.040 | 0.047 | 1.644 | 3.153 | 0.276 | 0.243 |
| | | | 2.077 | 8.701 | -0.202 | 0.419 | 0.590 | 26.476 | 32.786 | 15.291 | 10.568 |
| 1865 | SCLON | 860513 | 0.033 | 0.341 | -0.018 | -0.008 | -0.015 | 1.290 | 2.609 | 0.250 | 0.409 |
| | | | 1.743 | 9.604 | -0.393 | -0.085 | -0.183 | 20.772 | 27.130 | 13.835 | 17.806 |
| 1870 | SCLON | 860520 | | | | | | | | | |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1562 | SCLON | 860114 | 0.135 | 0.323 | 0.223 |
| | | | 3.456 | 8.066 | 9.167 |
| 1592 | SCLON | 860121 | | | |
| 1648 | SCLON | 860211 | 0.124 | 0.316 | 0.071 |
| | | | 3.174 | 7.886 | 2.921 |
| 1717 | SCLON | 860225 | 0.198 | 0.444 | 0.073 |
| | | | 5.071 | 11.074 | 2.998 |
| 1718 | SCLON | 860304 | 0.119 | 0.416 | 0.160 |
| | | | 3.044 | 10.382 | 6.593 |
| 1719 | SCLON | 860311 | 0.035 | 0.112 | 0.020 |
| | | | 0.895 | 2.806 | 0.810 |
| 1739 | SCLON | 860318 | 0.268 | 0.678 | 0.145 |
| | | | 6.868 | 16.909 | 5.976 |
| 1764 | SCLON | 860401 | 0.633 | 0.387 | 0.107 |
| | | | 16.192 | 9.661 | 4.396 |
| 1801 | SCLON | 860415 | 0.435 | 0.702 | 0.114 |
| | | | 11.126 | 17.507 | 4.675 |
| 1810 | SCLON | 860422 | | | |
| 1844 | SCLON | 860506 | 0.170 | 0.221 | 0.063 |
| | | | 4.341 | 5.518 | 2.583 |
| 1865 | SCLON | 860513 | 0.125 | 0.225 | 0.053 |
| | | | 3.192 | 5.623 | 2.186 |
| 1870 | SCLON | 860520 | | | |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1903 | SCLON | 860527 | | 950 | 860603 | 930 | 860613 | | | 209.00 | 27.0 |
| 1921 | SCLON | 860603 | | 930 | 860610 | 1000 | 860617 | | | 163.00 | |
| 1934 | SCLON | 860610 | | 1000 | 860617 | 1000 | 860625 | | | 34.00 | |
| 1989 | SCLON | 860708 | | 1005 | 860715 | 930 | 860724 | | | 32.00 | |
| 2020 | SCLON | 860715 | | 930 | 860722 | 950 | 860731 | | | 303.00 | 68.4 |
| 2055 | SCLON | 860722 | | 950 | 860729 | 1000 | 860813 | | | 625.00 | 39.7 |
| 2075 | SCLON | 860805 | | 915 | 860812 | 1115 | 860819 | | | 595.00 | 51.5 |
| 2089 | SCLON | 860812 | | 1115 | 860819 | 945 | 860827 | | | 77.00 | |
| 2172 | SCLON | 860826 | | 1200 | 860902 | 1030 | 860925 | | | 1086.00 | 26.2 |
| 2189 | SCLON | 860909 | | 930 | 860916 | 845 | 860926 | | | 40.00 | |
| 2258 | SCLON | 861007 | | 1030 | 861014 | 1030 | 861029 | | | 575.00 | 41.1 |
| 2281 | SCLON | 861021 | | 1000 | 861028 | 945 | 861104 | | | 58.00 | |
| 2320 | SCLON | 861028 | | 945 | 861104 | 1000 | 861121 | | | 123.00 | 18.0 |
| 2321 | SCLON | 861104 | | 1000 | 861110 | 1200 | 861121 | | | 433.00 | 36.8 |
| 2412 | SCLON | 861202 | | 930 | 861209 | 900 | 861222 | | | 505.00 | 46.1 |
| 2441 | SCLON | 861209 | | 900 | 861216 | 930 | 870105 | | | 1110.00 | 15.5 |
| 2454 | SCLON | 861216 | | 930 | 861223 | 1000 | 870107 | | | 447.00 | 31.1 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2455 | SCLON | 861223 |  | 1000 | 861230 | 1000 | 870107 |  |  | 855.00 | 10.7 |
| 2479 | SCLON | 861230 |  | 1000 | 870106 | 1000 | 870114 |  |  | 240.00 | 13.0 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1903 | SCLON | 860527 | 4.20 | | | 0.98 | 1.05 | 150.0 | 4.27 | 60.6 | 26.4 |
| 1921 | SCLON | 860603 | | | | 1.06 | 0.97 | 150.0 | 3.82 | 173.8 | 80.8 |
| 1934 | SCLON | 860610 | | | | 0.90 | 0.94 | 30.0 | 4.10 | | 45.9 |
| 1989 | SCLON | 860708 | | 3 | | 1.29 | 0.98 | 30.0 | 4.19 | | 36.7 |
| 2020 | SCLON | 860715 | 3.84 | 3 | | 1.05 | 0.98 | 260.0 | 3.87 | 150.5 | 66.3 |
| 2055 | SCLON | 860722 | 4.12 | | | 1.03 | 1.02 | 540.0 | 4.12 | 86.5 | 36.4 |
| 2075 | SCLON | 860805 | 3.94 | 3 | | 1.07 | 1.07 | 550.0 | 3.99 | 116.7 | 44.9 |
| 2089 | SCLON | 860812 | | 3 | 21 | 0.88 | 0.99 | 75.0 | 5.63 | | 7.5 |
| 2172 | SCLON | 860826 | 4.30 | | | 1.05 | 1.10 | 550.0 | 4.29 | 56.6 | 22.7 |
| 2189 | SCLON | 860909 | | | | 1.07 | 1.01 | 40.0 | 3.99 | | 54.3 |
| 2258 | SCLON | 861007 | 4.02 | 3 | | 1.08 | 1.04 | 520.0 | 4.04 | 102.1 | 40.6 |
| 2281 | SCLON | 861021 | | | 21 | 1.08 | 1.05 | 50.0 | 4.22 | | 27.6 |
| 2320 | SCLON | 861028 | 4.46 | 3 | | 1.15 | 1.08 | 75.0 | 4.47 | 42.7 | 14.7 |
| 2321 | SCLON | 861104 | 4.13 | | | 1.03 | 1.05 | 400.0 | 4.14 | 79.7 | 34.9 |
| 2412 | SCLON | 861202 | 4.17 | 3 | | 1.13 | 0.99 | 425.0 | 4.24 | 68.4 | 40.6 |
| 2441 | SCLON | 861209 | 4.60 | | | 1.10 | 1.17 | 540.0 | 4.51 | 35.2 | 13.3 |
| 2454 | SCLON | 861216 | 4.22 | 3 | | 1.04 | 1.05 | 400.0 | 4.19 | 70.6 | 29.7 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2455 | SCLON | 861223 | 4.80 | | | 1.02 | 1.18 | 525.0 | 4.80 | 20.7 | 8.3 |
| 2479 | SCLON | 861230 | 4.60 | 3 | | 1.11 | 1.23 | 200.0 | 4.55 | 31.6 | 10.4 |

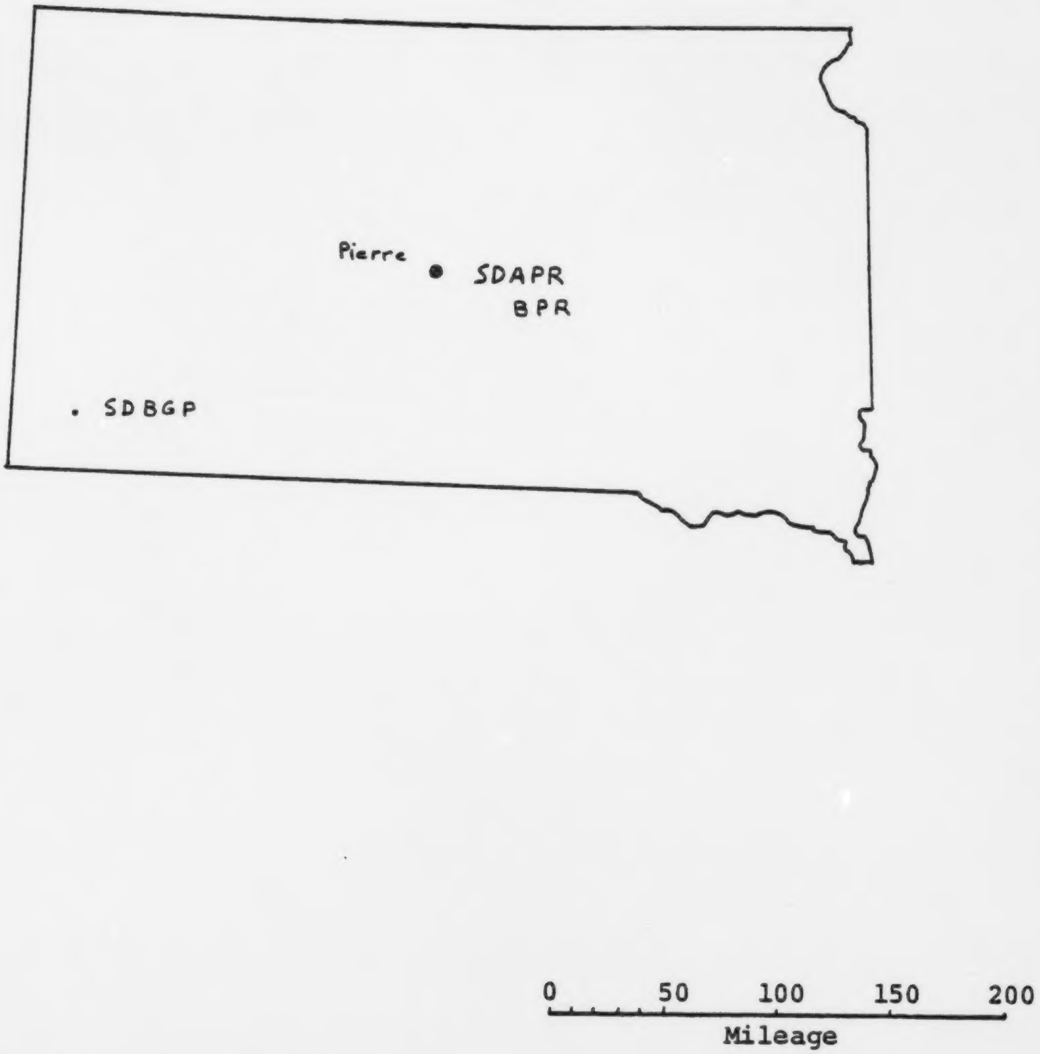
| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1903 | SCLON | 860527 | 0.058 | 0.251 | -0.008 | -0.024 | -0.013 | 1.351 | 2.687 | 0.334 | 0.161 |
| | | | 3.078 | 7.087 | -0.172 | -0.257 | -0.158 | 21.752 | 27.943 | 18.512 | 6.996 |
| 1921 | SCLON | 860603 | 0.075 | 0.612 | -0.012 | -0.022 | -0.007 | 4.162 | 8.134 | 1.083 | 0.398 |
| | | | 3.940 | 17.270 | -0.260 | -0.228 | -0.090 | 67.002 | 84.598 | 59.982 | 17.325 |
| 1934 | SCLON | 860610 | -0.001 | 0.280 | -0.011 | -0.016 | -0.019 | 1.853 | 4.893 | 0.686 | 0.416 |
| | | | -0.075 | 7.890 | -0.233 | -0.164 | -0.237 | 29.828 | 50.890 | 38.022 | 18.081 |
| 1989 | SCLON | 860708 | 0.222 | 0.476 | -0.003 | 0.642 | -0.018 | 1.227 | 3.817 | 0.030 | 0.343 |
| | | | 11.671 | 13.425 | -0.066 | 6.737 | -0.222 | 19.757 | 39.697 | 1.667 | 14.907 |
| 2020 | SCLON | 860715 | 0.084 | 0.146 | -0.006 | 0.033 | -0.006 | 1.716 | 7.453 | 0.503 | 0.095 |
| | | | 4.410 | 4.104 | -0.124 | 0.343 | -0.074 | 27.630 | 77.508 | 27.842 | 4.112 |
| 2055 | SCLON | 860722 | 0.048 | 0.134 | -0.015 | -0.065 | -0.011 | 1.946 | 3.580 | 0.436 | 0.074 |
| | | | 2.528 | 3.789 | -0.323 | -0.686 | -0.140 | 31.325 | 37.232 | 24.140 | 3.198 |
| 2075 | SCLON | 860805 | 0.040 | 0.161 | -0.006 | 0.055 | -0.019 | 1.875 | 4.826 | 0.332 | 0.060 |
| | | | 2.115 | 4.541 | -0.133 | 0.574 | -0.241 | 30.189 | 50.186 | 18.416 | 2.589 |
| 2089 | SCLON | 860812 | 0.025 | 0.551 | -0.004 | -0.024 | -0.020 | 0.467 | 1.038 | 0.173 | 0.453 |
| | | | 1.330 | 15.550 | -0.091 | -0.252 | -0.247 | 7.516 | 10.799 | 9.604 | 19.713 |
| 2172 | SCLON | 860826 | 0.014 | 0.138 | -0.011 | 0.031 | -0.026 | 1.119 | 2.522 | 0.268 | 0.077 |
| | | | 0.760 | 3.892 | -0.248 | 0.330 | -0.324 | 18.010 | 26.225 | 14.849 | 3.364 |
| 2189 | SCLON | 860909 | 0.093 | 1.316 | -0.009 | 0.025 | 0.039 | 2.480 | 5.398 | 0.384 | 0.878 |
| | | | 4.870 | 37.117 | -0.194 | 0.260 | 0.486 | 39.926 | 56.139 | 21.250 | 38.195 |
| 2258 | SCLON | 861007 | 0.020 | 0.194 | 0.000 | 0.028 | 0.000 | 2.164 | 3.705 | 0.287 | 0.051 |
| | | | 1.047 | 5.480 | 0.000 | 0.297 | 0.000 | 34.844 | 38.532 | 15.907 | 2.209 |
| 2281 | SCLON | 861021 | 0.034 | 0.356 | -0.016 | -0.081 | 0.106 | 1.794 | 2.353 | 0.079 | 0.219 |
| | | | 1.777 | 10.036 | -0.352 | -0.851 | 1.330 | 28.887 | 24.468 | 4.372 | 9.538 |
| 2320 | SCLON | 861028 | -0.001 | 0.225 | -0.003 | 0.010 | -0.021 | 1.058 | 1.366 | 0.036 | 0.125 |
| | | | -0.068 | 6.339 | -0.057 | 0.106 | -0.265 | 17.034 | 14.201 | 1.994 | 5.417 |
| 2321 | SCLON | 861104 | 0.026 | 0.266 | 0.027 | 0.052 | -0.006 | 1.733 | 3.738 | 0.587 | 0.126 |
| | | | 1.364 | 7.498 | 0.583 | 0.544 | -0.077 | 27.898 | 38.871 | 32.519 | 5.465 |
| 2412 | SCLON | 861202 | 0.028 | 2.323 | -0.006 | 0.100 | 0.103 | 2.632 | 3.526 | 0.459 | 1.400 |
| | | | 1.465 | 65.505 | -0.130 | 1.052 | 1.286 | 42.368 | 36.672 | 25.406 | 60.913 |
| 2441 | SCLON | 861209 | -0.006 | 0.250 | -0.010 | 0.098 | -0.056 | 0.690 | 1.403 | 0.131 | 0.119 |
| | | | -0.319 | 7.056 | -0.220 | 1.034 | -0.702 | 11.103 | 14.590 | 7.279 | 5.155 |
| 2454 | SCLON | 861216 | -0.005 | 0.230 | -0.008 | -0.032 | -0.023 | 2.211 | 2.446 | 0.299 | 0.129 |
| | | | -0.241 | 6.478 | -0.182 | -0.335 | -0.293 | 35.599 | 25.442 | 16.544 | 5.628 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2455 | SCLON | 861223 | -0.006 | 0.283 | -0.011 | 0.030 | -0.008 | 0.652 | 0.939 | 0.139 | 0.157 |
| | | | -0.337 | 7.987 | -0.234 | 0.319 | -0.105 | 10.495 | 9.762 | 7.723 | 6.811 |
| 2479 | SCLON | 861230 | -0.002 | 0.057 | -0.003 | 0.017 | -0.020 | 0.874 | 0.957 | -0.002 | 0.027 |
| | | | -0.092 | 1.603 | -0.073 | 0.177 | -0.253 | 14.064 | 9.949 | -0.090 | 1.157 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1903 | SCLON | 860527 | 0.054 | 0.132 | 0.034 |
| | | | 1.371 | 3.300 | 1.378 |
| 1921 | SCLON | 860603 | 0.125 | 0.171 | 0.057 |
| | | | 3.208 | 4.257 | 2.362 |
| 1934 | SCLON | 860610 | 0.120 | 0.267 | 0.045 |
| | | | 3.077 | 6.659 | 1.842 |
| 1989 | SCLON | 860708 | 0.265 | 0.402 | 0.055 |
| | | | 6.771 | 10.029 | 2.282 |
| 2020 | SCLON | 860715 | 0.063 | 0.261 | 0.037 |
| | | | 1.604 | 6.521 | 1.505 |
| 2055 | SCLON | 860722 | 0.071 | 0.070 | 0.013 |
| | | | 1.816 | 1.755 | 0.523 |
| 2075 | SCLON | 860805 | 0.044 | 0.102 | 0.018 |
| | | | 1.134 | 2.539 | 0.740 |
| 2089 | SCLON | 860812 | 0.537 | 0.118 | 0.014 |
| | | | 13.734 | 2.936 | 0.585 |
| 2172 | SCLON | 860826 | 0.015 | 0.038 | 0.011 |
| | | | 0.384 | 0.951 | 0.458 |
| 2189 | SCLON | 860909 | 0.090 | 0.179 | 0.120 |
| | | | 2.290 | 4.473 | 4.940 |
| 2258 | SCLON | 861007 | 0.021 | 0.019 | 0.007 |
| | | | 0.527 | 0.474 | 0.307 |
| 2281 | SCLON | 861021 | 0.078 | 0.123 | 0.030 |
| | | | 1.985 | 3.079 | 1.252 |
| 2320 | SCLON | 861028 | 0.048 | 0.071 | 0.029 |
| | | | 1.232 | 1.782 | 1.195 |
| 2321 | SCLON | 861104 | 0.029 | 0.026 | 0.017 |
| | | | 0.741 | 0.657 | 0.696 |
| 2412 | SCLON | 861202 | 0.086 | 0.114 | 0.172 |
| | | | 2.211 | 2.834 | 7.083 |
| 2441 | SCLON | 861209 | 0.017 | 0.020 | 0.014 |
| | | | 0.442 | 0.508 | 0.586 |
| 2454 | SCLON | 861216 | 0.057 | 0.025 | 0.012 |
| | | | 1.457 | 0.626 | 0.499 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2455 | SCLON | 861223 | 0.054 | 0.097 | 0.021 |
|  |  |  | 1.393 | 2.413 | 0.856 |
| 2479 | SCLON | 861230 | 0.033 | 0.033 | 0.011 |
|  |  |  | 0.843 | 0.825 | 0.472 |

## SOUTH DAKOTA


Pierre
SDAPR
BPR
SDBGP
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

# SOUTH DAKOTA

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD[1]<br>BEGIN | <br>END | #SAMPLES | %NON-VOID[2] |
|---|---|---|---|---|---|---|---|
| SDAPR | Pierre | Pierre | Hughes | NOV - | DEC 1986 | 2 | 100 |
| SDBGP | Buffalo Gap | Hot Springs | Custer | | DEC 1986 | 2 | 100 |
| SDBPR | Pierre Colocated | Pierre | Hughes | NOV - | DEC 1986 | 3 | 100 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)

Site: SDAPR

Data Plots, JAN '86 - DEC '86

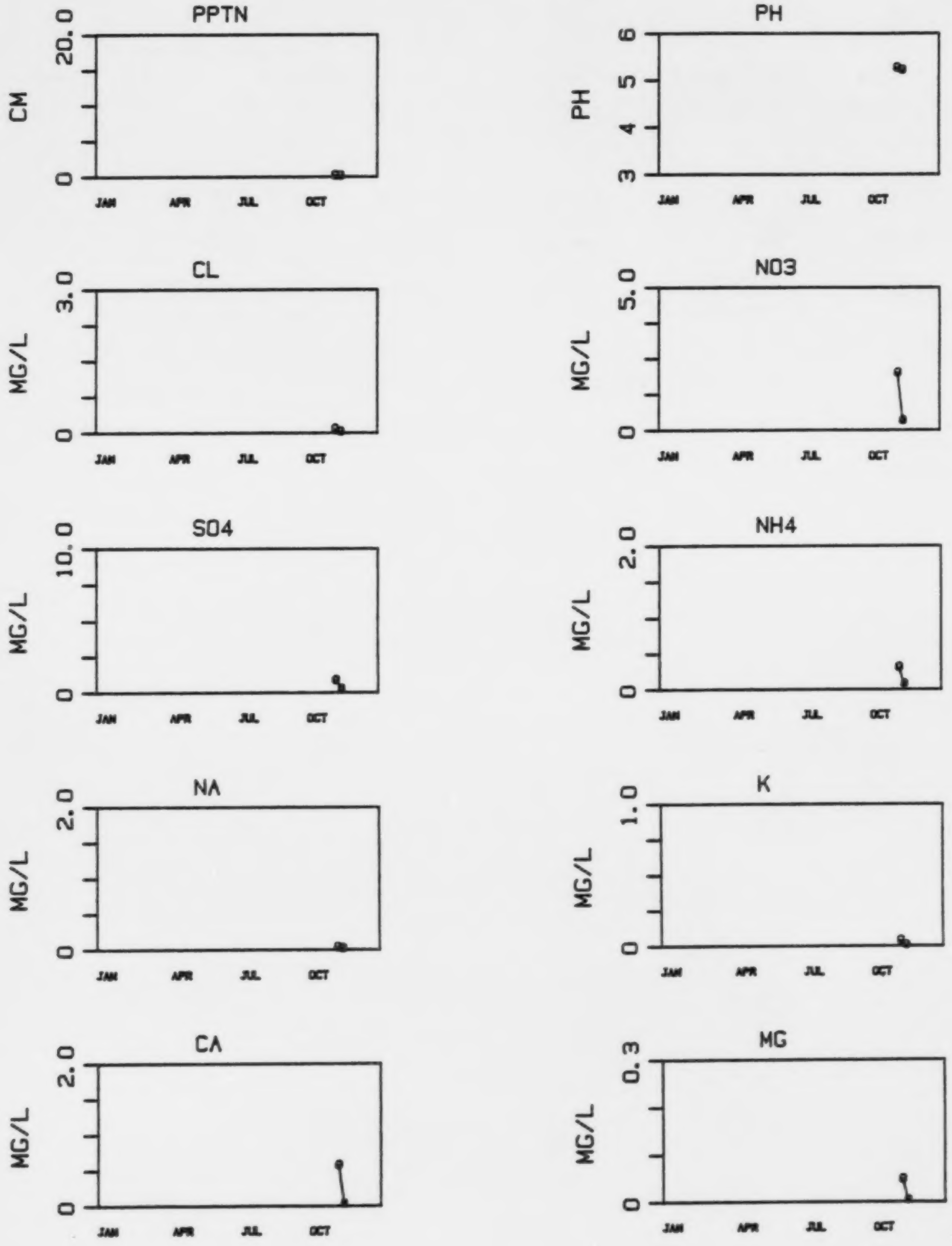


Figure 2-1 (continued)
Site: SDBGP
Data Plots, JAN '86 - DEC '86

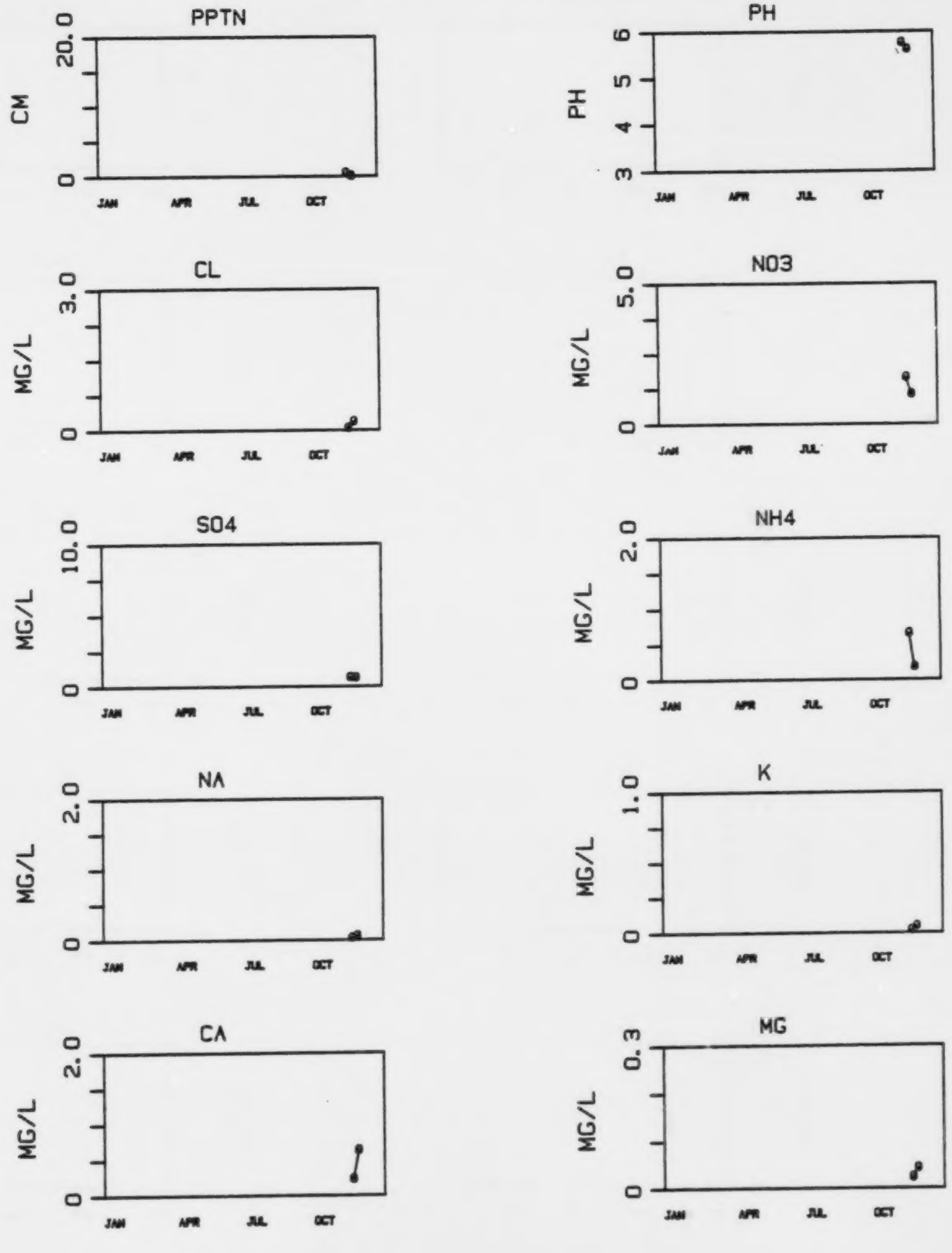
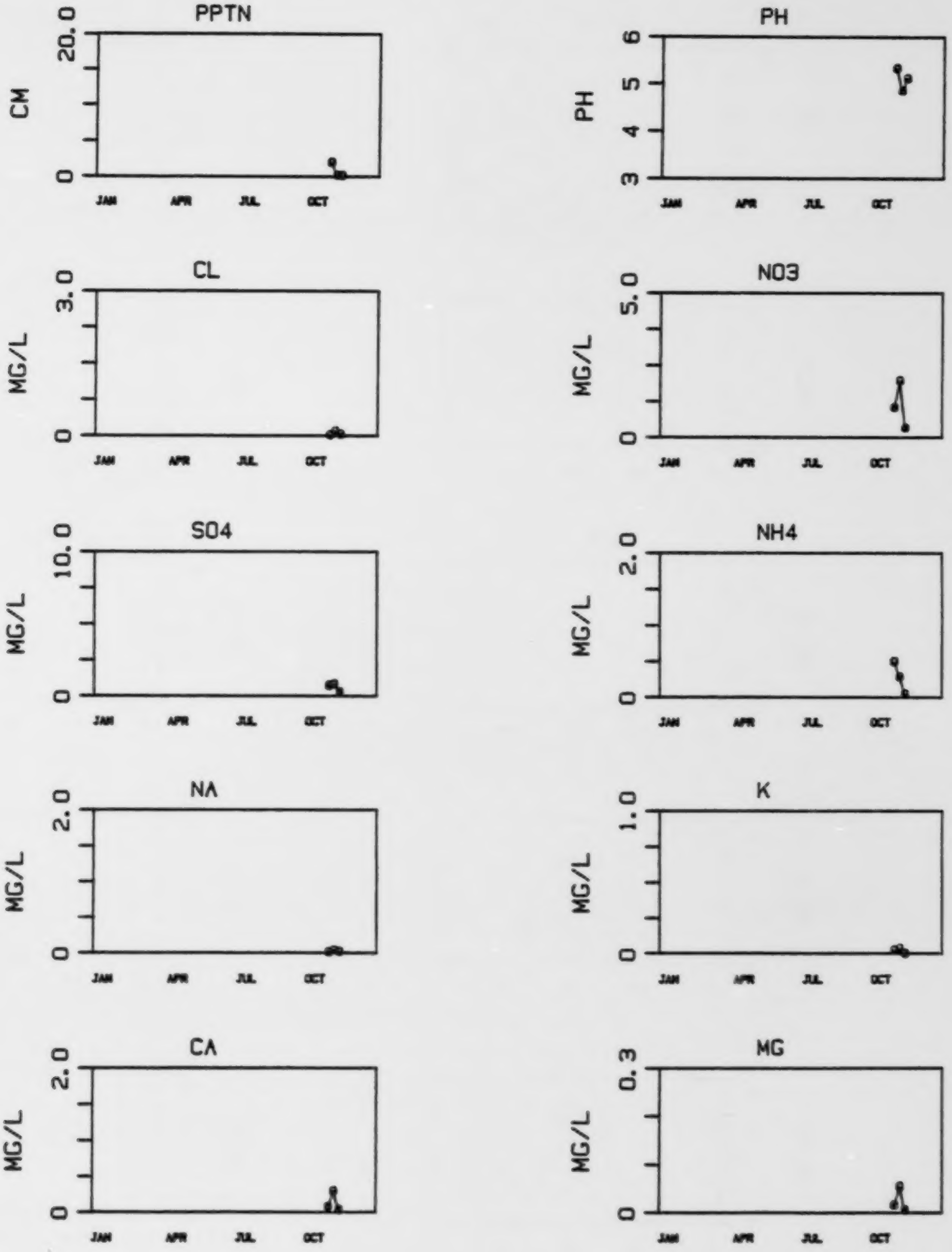


Figure 2-1 (continued)

Site: SDBPR

Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2338 | SDAPR | 861111 | 1 | 900 | 861118 | 845 | 861125 | 1 | 0.06 | 63.00 | |
| 2359 | SDAPR | 861118 | 1 | 845 | 861125 | 915 | 861202 | 1 | 0.05 | 96.00 | 4.7 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2338 | SDAPR | 861111 | 5.45 | 3 |  | 0.95 | 1.08 | 50.0 | 5.27 |  | 8.5 |
| 2359 | SDAPR | 861118 | 5.45 |  |  | 1.06 | 1.45 | 45.0 | 5.22 |  | 2.5 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2338 | SDAPR | 861111 | -0.002 | 0.087 | 0.024 | 0.047 | -0.013 | 1.999 | 0.857 | 0.310 | 0.034 |
| | | | -0.120 | 2.464 | 0.524 | 0.498 | -0.160 | 32.187 | 8.910 | 17.161 | 1.462 |
| 2359 | SDAPR | 861118 | -0.003 | 0.025 | 0.019 | 0.066 | -0.012 | 0.331 | 0.260 | 0.078 | 0.019 |
| | | | -0.156 | 0.695 | 0.415 | 0.698 | -0.155 | 5.337 | 2.707 | 4.336 | 0.815 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2338 | SDAPR | 861111 | 0.039 | 0.575 | 0.048 |
| | | | 0.994 | 14.346 | 1.991 |
| 2359 | SDAPR | 861118 | 0.007 | 0.032 | 0.004 |
| | | | 0.169 | 0.787 | 0.179 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2391 | SDB6P | 861125 | 2 | 2130 | 861202 | 945 | 861211 | 1 | 0.19 | 312.00 | 9.6 |
| 2409 | SDB6P | 861202 |  | 1000 | 861209 | 930 | 861219 | 2 | 0.02 | 32.00 |  |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2391 | SD86P | 861125 | 5.80 | 3 | | 0.83 | 1.14 | 240.0 | 5.75 | | 6.4 |
| 2409 | SD86P | 861202 | | | | 0.77 | 1.09 | 70.0 | 5.61 | | 6.1 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2391 | SDBGP | 861125 | 0.005 | 0.046 | 0.048 | 0.050 | -0.031 | 1.645 | 0.637 | 0.655 | 0.029 |
| | | | 0.251 | 1.289 | 1.036 | 0.524 | -0.393 | 26.490 | 6.627 | 36.263 | 1.244 |
| 2409 | SDBGP | 861202 | 0.026 | 0.181 | 0.047 | 0.088 | -0.041 | 1.052 | 0.597 | 0.178 | 0.061 |
| | | | 1.342 | 5.105 | 1.029 | 0.929 | -0.514 | 16.932 | 6.209 | 9.836 | 2.638 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2391 | SDBGP | 861125 | 0.019 | 0.230 | 0.023 |
| | | | 0.474 | 5.737 | 0.958 |
| 2409 | SDBGP | 861202 | 0.046 | 0.638 | 0.043 |
| | | | 1.170 | 15.916 | 1.762 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2299 | SDBPR | 861104 | 1 | 930 | 861111 | 900 | 861114 | 4 | 0.76 | 1079.00 | 7.6 |
| 2339 | SDBPR | 861111 | 1 | 900 | 861118 | 845 | 861125 | 1 | 0.06 | 64.00 | |
| 2363 | SDBPR | 861118 | 1 | 845 | 861125 | 915 | 861203 | 1 | 0.05 | 88.00 | 4.6 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2299 | SDBPR | 861104 | 5.50 | | | 0.89 | 1.17 | 480.0 | 5.32 | 11.8 | 5.6 |
| 2339 | SDBPR | 861111 | 4.85 | | | 1.03 | 1.02 | 60.0 | 4.85 | | 11.0 |
| 2363 | SDBPR | 861118 | 5.30 | | | 1.09 | 1.38 | 42.0 | 5.11 | | 2.9 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2299 | SDBPR | 861104 | 0.007 | 0.012 | -0.022 | 0.051 | -0.071 | 1.043 | 0.720 | 0.495 | 0.010 |
| | | | 0.357 | 0.348 | -0.473 | 0.530 | -0.893 | 16.793 | 7.484 | 27.434 | 0.422 |
| 2339 | SDBPR | 861111 | -0.002 | 0.093 | -0.018 | 0.046 | -0.013 | 1.965 | 0.830 | 0.286 | 0.037 |
| | | | -0.122 | 2.617 | -0.394 | 0.479 | -0.164 | 31.631 | 8.634 | 15.839 | 1.630 |
| 2363 | SDBPR | 861118 | -0.003 | 0.024 | 0.018 | 0.084 | -0.012 | 0.324 | 0.254 | 0.046 | 0.017 |
| | | | -0.158 | 0.685 | 0.387 | 0.878 | -0.149 | 5.223 | 2.646 | 2.539 | 0.758 |

```
ID       STN      BD            K         CA         MG
                            ug/ml      ug/ml      ug/ml
                         umoles/l   umoles/l   umoles/l

 2299    SDBPR    861104     0.024      0.074      0.015
                             0.605      1.834      0.636

 2339    SDBPR    861111     0.036      0.296      0.054
                             0.909      7.377      2.221

 2363    SDBPR    861118    -0.005      0.034      0.005
                            -0.137      0.836      0.202
```

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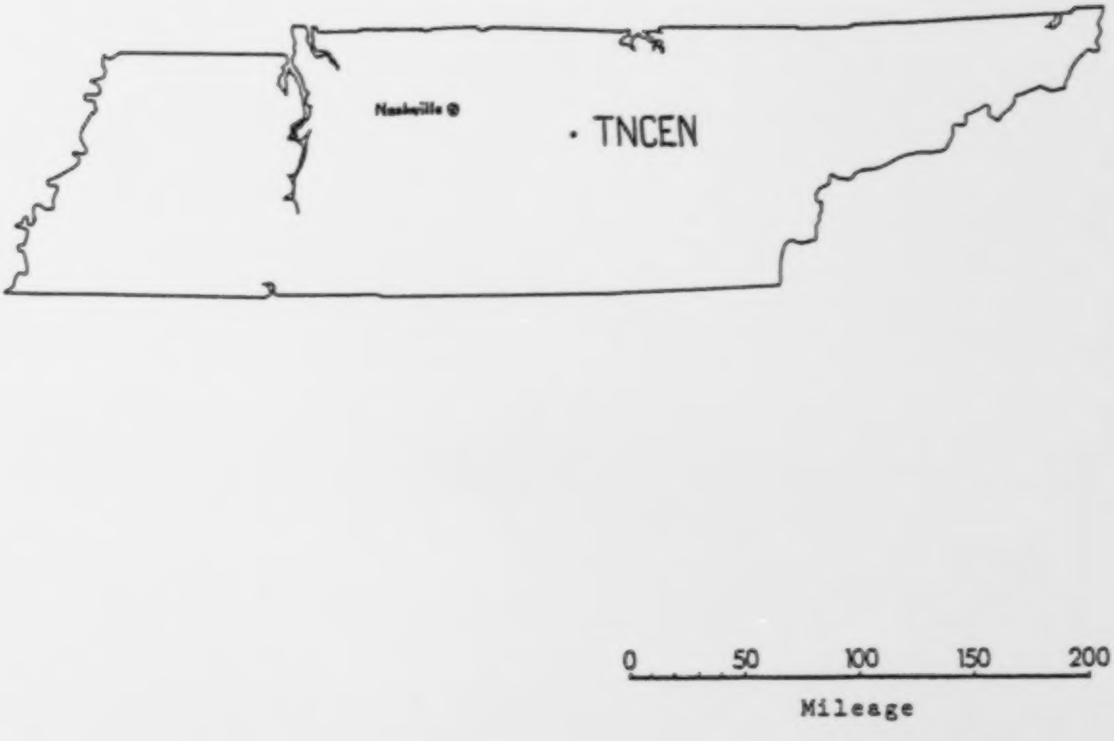
TENNESSEE


Nashville ⊙
• TNCEN
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
• EPA Acid Rain Site (nearest city)

TENNESSEE

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD(1)<br>BEGIN | END | #SAMPLES | %NON-VOID(2) |
|---|---|---|---|---|---|---|---|
| TNCEN | Center Hill Res | Smithville | De Kalb | | | 41 | 100 |

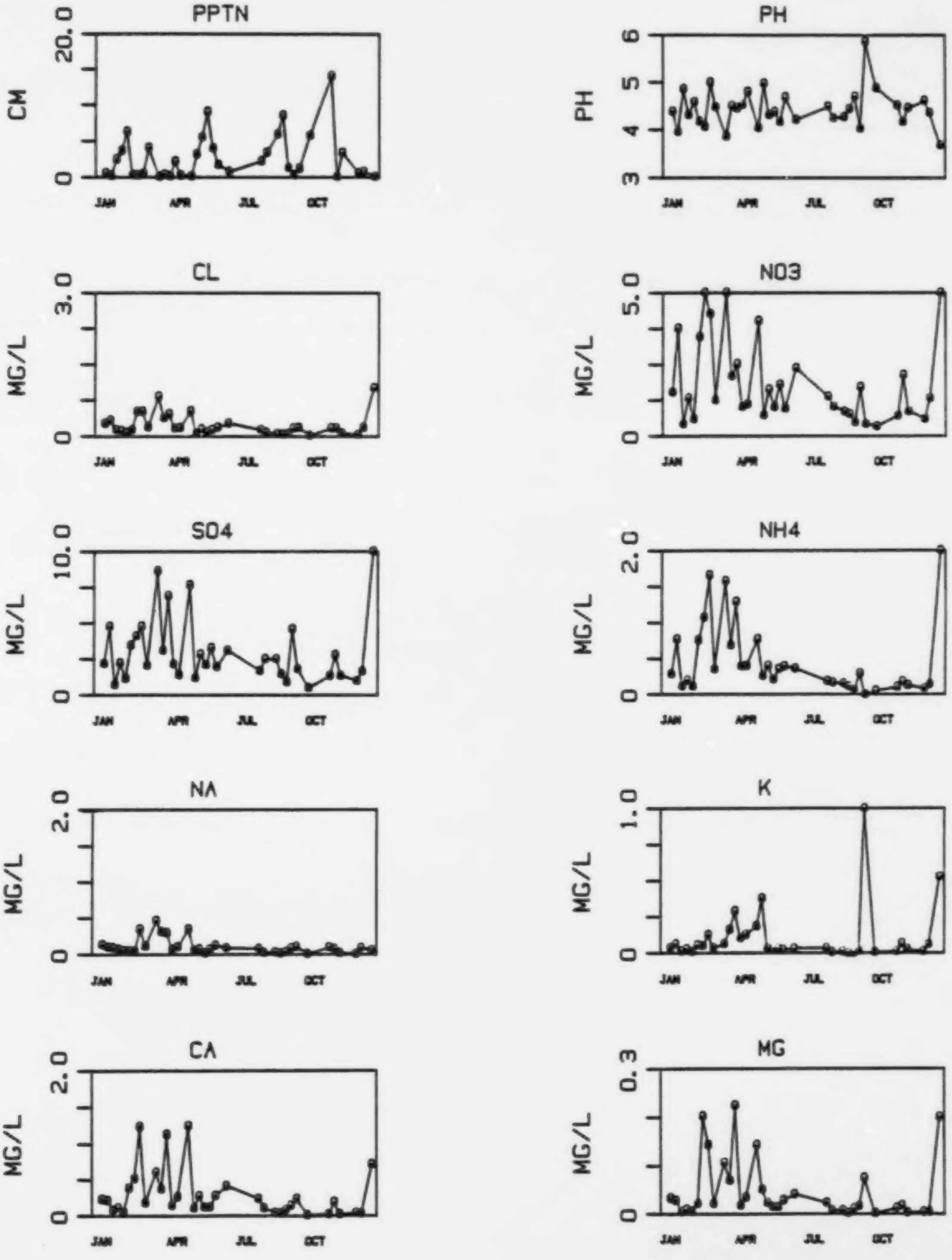
(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)

Site: TNCEN

Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1588 | TNCEN | 860114 |  | 1200 | 860121 | 1200 | 860205 | 2 | 0.25 | 492.00 | 23.4 |
| 1589 | TNCEN | 860121 | 2 | 1200 | 860128 | 1200 | 860205 | 3 | 0.12 | 477.00 | 54.3 |
| 1628 | TNCEN | 860128 |  | 1200 | 860204 | 1200 | 860221 | 3 | 1.02 | 1823.00 | 7.4 |
| 1636 | TNCEN | 860204 | 2 | 1200 | 060211 | 1200 | 860224 | 7 | 1.48 | 3089.00 | 22.2 |
| 1649 | TNCEN | 860211 |  | 1200 | 860218 | 1200 | 860227 | 3 | 2.50 | 5155.00 | 13.1 |
| 1663 | TNCEN | 860218 |  | 1200 | 860225 | 1200 | 860310 | 1 | 0.16 | 344.00 | 36.8 |
| 1687 | TNCEN | 860225 |  | 1200 | 860304 | 1200 | 860317 | 2 | 0.13 | 312.00 | 48.2 |
| 1690 | TNCEN | 860304 |  | 1200 | 860311 | 1200 | 860319 | 2 | 0.22 | 472.00 | 26.8 |
| 1724 | TNCEN | 860311 |  | 1200 | 860318 | 1200 | 860402 | 4 | 1.62 | 2882.00 | 20.2 |
| 1750 | TNCEN | 860325 |  | 1200 | 860401 | 1200 | 860411 | 1 |  | 74.00 |  |
| 1771 | TNCEN | 860401 |  | 1200 | 860408 | 1200 | 860422 | 5 | 0.17 | 311.00 | 25.4 |
| 1776 | TNCEN | 860408 |  | 1200 | 860415 | 1200 | 860423 | 3 | 0.07 | 139.00 |  |
| 1785 | TNCEN | 860415 |  | 1200 | 860422 | 1200 | 860429 | 3 | 0.87 | 1600.00 | 19.7 |
| 1826 | TNCEN | 860422 |  | 1200 | 860429 | 1200 | 860509 | 1 | 0.10 | 193.00 |  |
| 1874 | TNCEN | 860506 |  | 1200 | 860513 |  | 860605 | 2 | 0.06 | 128.00 |  |
| 1882 | TNCEN | 060513 |  | 1200 | 860520 | 1200 | 860606 | 6 | 1.26 | 2264.00 | 8.9 |
| 1892 | TNCEN | 860527 |  | 1200 | 860603 | 1200 | 860610 | 3 | 3.56 | 6735.00 | 20.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1588 | TMCEN | 860114 | 4.38 | 3 |  | 1.00 | 1.06 | 375.000 | 4.38 | 45.70 | 21.4 |
| 1589 | TMCEN | 860121 | 3.96 | 3 |  | 1.00 | 1.01 | 350.000 | 3.96 | 110.31 | 54.7 |
| 1628 | TMCEN | 860128 | 4.79 |  |  | 0.94 | 1.25 | 475.000 | 4.85 | 17.29 | 6.3 |
| 1636 | TMCEN | 860204 | 4.34 | 3 | 33 | 1.02 | 1.11 | 420.000 | 4.31 | 52.68 | 21.5 |
| 1649 | TMCEN | 860211 | 4.42 |  |  | 0.96 | 1.15 | 375.000 | 4.58 | 28.85 | 11.0 |
| 1663 | TMCEN | 860218 | 3.93 |  |  | 1.00 | 1.02 | 200.000 | 4.17 | 76.85 | 37.0 |
| 1687 | TMCEN | 860225 | 4.04 | 13 |  | 0.97 | 1.04 | 160.000 | 4.06 | 96.18 | 49.3 |
| 1690 | TMCEN | 860304 | 4.65 | 3 |  | 0.95 | 1.07 | 375.000 | 4.99 | 17.27 | 27.6 |
| 1724 | TMCEN | 860311 | 4.40 | 3 | 33 | 0.99 | 1.09 | 400.000 | 4.47 | 41.08 | 17.9 |
| 1750 | TMCEN | 860325 |  | 3 |  | 1.06 | 1.03 | 70.000 | 3.86 | 149.73 | 77.9 |
| 1771 | TMCEN | 860401 | 4.31 | 3 |  | 0.99 | 1.07 | 200.000 | 4.50 | 34.28 | 22.9 |
| 1776 | TMCEN | 860408 |  | 3 |  | 1.00 | 1.04 | 130.000 | 4.45 | 42.50 | 37.0 |
| 1785 | TMCEN | 860415 | 4.41 | 3 |  | 1.03 | 1.07 | 450.000 | 4.53 | 34.36 | 16.7 |
| 1826 | TMCEN | 860422 |  | 3 |  | 0.88 | 1.23 | 190.000 | 4.80 | 21.56 | 10.3 |
| 1874 | TMCEN | 860506 |  | 3 |  | 1.07 | 1.01 | 125.000 | 4.04 | 102.90 | 58.0 |
| 1882 | TMCEN | 860513 | 4.85 | 3 |  | 0.92 | 1.12 | 400.000 | 4.97 | 17.80 | 8.4 |
| 1892 | TMCEN | 860527 | 4.32 |  |  | 1.03 | 1.07 | 450.000 | 4.38 | 47.80 | 19.3 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1588 | TNCEN | 860114 | 0.010 | 0.267 | -0.011 | -0.010 | -0.039 | 1.541 | 2.203 | 0.291 | 0.137 |
| | | | 0.518 | 7.518 | -0.235 | -0.101 | -0.491 | 24.807 | 22.912 | 16.109 | 5.980 |
| 1589 | TNCEN | 860121 | 0.025 | 0.334 | -0.011 | -0.010 | -0.040 | 3.754 | 4.770 | 0.772 | 0.101 |
| | | | 1.326 | 9.407 | -0.231 | -0.101 | -0.505 | 60.436 | 49.604 | 42.759 | 4.399 |
| 1628 | TNCEN | 860128 | 0.003 | 0.133 | -0.011 | 0.048 | -0.046 | 0.429 | 0.721 | 0.116 | 0.092 |
| | | | 0.157 | 3.746 | -0.241 | 0.506 | -0.573 | 6.906 | 7.502 | 6.418 | 3.988 |
| 1636 | TNCEN | 860204 | 0.006 | 0.122 | -0.012 | -0.022 | -0.051 | 1.329 | 2.239 | 0.202 | 0.071 |
| | | | 0.306 | 3.442 | -0.267 | -0.229 | -0.642 | 21.403 | 23.286 | 11.197 | 3.097 |
| 1649 | TNCEN | 860211 | 0.003 | 0.080 | -0.026 | -0.052 | -0.065 | 0.604 | 1.161 | 0.115 | 0.052 |
| | | | 0.140 | 2.268 | -0.568 | -0.548 | -0.814 | 9.718 | 12.079 | 6.388 | 2.283 |
| 1663 | TNCEN | 860218 | 0.022 | 0.136 | 0.030 | -0.054 | -0.033 | 3.469 | 3.465 | 0.759 | 0.051 |
| | | | 1.144 | 3.845 | 0.646 | -0.565 | -0.407 | 55.847 | 36.036 | 42.053 | 2.207 |
| 1687 | TNCEN | 860225 | 0.033 | 0.514 | -0.013 | -0.048 | -0.062 | 5.207 | 4.134 | 1.076 | 0.050 |
| | | | 1.733 | 14.492 | -0.277 | -0.502 | -0.771 | 83.830 | 42.996 | 59.588 | 2.163 |
| 1690 | TNCEN | 860304 | 0.031 | 0.515 | -0.012 | -0.044 | -0.064 | 4.272 | 4.787 | 1.660 | 0.348 |
| | | | 1.630 | 14.529 | -0.261 | -0.460 | -0.796 | 68.773 | 49.786 | 91.968 | 15.119 |
| 1724 | TNCEN | 860311 | 0.010 | 0.189 | -0.013 | -0.041 | -0.068 | 1.268 | 2.057 | 0.355 | 0.115 |
| | | | 0.524 | 5.333 | -0.288 | -0.434 | -0.849 | 20.413 | 21.396 | 19.668 | 4.998 |
| 1750 | TNCEN | 860325 | 0.043 | 0.833 | -0.015 | -0.029 | -0.047 | 6.032 | 8.642 | 1.577 | 0.466 |
| | | | 2.263 | 23.486 | -0.318 | -0.304 | -0.585 | 97.119 | 89.878 | 87.368 | 20.289 |
| 1771 | TNCEN | 860401 | 0.014 | 0.385 | -0.043 | -0.026 | -0.033 | 2.110 | 3.111 | 0.692 | 0.310 |
| | | | 0.759 | 10.844 | -0.931 | -0.275 | -0.409 | 33.964 | 32.358 | 38.334 | 13.491 |
| 1776 | TNCEN | 860408 | 0.045 | 0.464 | -0.053 | 0.074 | -0.027 | 2.527 | 6.920 | 1.290 | 0.295 |
| | | | 2.380 | 13.094 | -1.142 | 0.774 | -0.334 | 40.682 | 71.970 | 71.485 | 12.833 |
| 1785 | TNCEN | 860415 | 0.011 | 0.165 | -0.007 | 0.016 | -0.009 | 1.026 | 2.161 | 0.396 | 0.068 |
| | | | 0.575 | 4.654 | -0.155 | 0.166 | -0.116 | 16.518 | 22.478 | 21.959 | 2.948 |
| 1826 | TNCEN | 860422 | 0.013 | 0.181 | -0.005 | 0.039 | -0.008 | 1.126 | 1.414 | 0.401 | 0.106 |
| | | | 0.703 | 5.116 | -0.118 | 0.413 | -0.099 | 18.136 | 14.703 | 22.203 | 4.614 |
| 1874 | TNCEN | 860506 | 0.064 | 0.530 | -0.017 | -0.010 | -0.010 | 4.030 | 7.668 | 0.773 | 0.348 |
| | | | 3.348 | 14.935 | -0.359 | -0.109 | -0.123 | 64.882 | 79.749 | 42.824 | 15.120 |
| 1882 | TNCEN | 860513 | 0.007 | 0.071 | -0.012 | 0.084 | 0.078 | 0.736 | 1.209 | 0.262 | 0.060 |
| | | | 0.357 | 1.996 | -0.269 | 0.884 | 0.979 | 11.842 | 12.569 | 14.517 | 2.604 |
| 1892 | TNCEN | 860527 | 0.010 | 0.093 | -0.005 | -0.018 | -0.013 | 1.026 | 2.115 | 0.212 | 0.017 |
| | | | 0.544 | 2.627 | -0.113 | -0.185 | -0.167 | 16.513 | 21.995 | 11.746 | 0.747 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1588 | TMCEN | 860114 | 0.036 | 0.228 | 0.033 |
| | | | 0.909 | 5.693 | 1.371 |
| 1589 | TMCEN | 860121 | 0.063 | 0.212 | 0.028 |
| | | | 1.603 | 5.285 | 1.137 |
| 1628 | TMCEN | 860128 | 0.012 | 0.078 | 0.005 |
| | | | 0.302 | 1.937 | 0.209 |
| 1636 | TMCEN | 860204 | 0.029 | 0.114 | 0.010 |
| | | | 0.735 | 2.843 | 0.399 |
| 1649 | TMCEN | 860211 | 0.010 | 0.051 | 0.005 |
| | | | 0.245 | 1.278 | 0.219 |
| 1663 | TMCEN | 860218 | 0.056 | 0.383 | 0.022 |
| | | | 1.432 | 9.555 | 0.921 |
| 1687 | TMCEN | 860225 | 0.050 | 0.524 | 0.202 |
| | | | 1.284 | 13.066 | 8.300 |
| 1690 | TMCEN | 860304 | 0.123 | 1.236 | 0.143 |
| | | | 3.148 | 30.845 | 5.897 |
| 1724 | TMCEN | 860311 | 0.037 | 0.180 | 0.022 |
| | | | 0.941 | 4.503 | 0.891 |
| 1750 | TMCEN | 860325 | 0.063 | 0.612 | 0.107 |
| | | | 1.617 | 15.262 | 4.403 |
| 1771 | TMCEN | 860401 | 0.161 | 0.370 | 0.070 |
| | | | 4.108 | 9.243 | 2.870 |
| 1776 | TMCEN | 860408 | 0.288 | 1.128 | 0.224 |
| | | | 7.371 | 28.142 | 9.214 |
| 1785 | TMCEN | 860415 | 0.104 | 0.144 | 0.018 |
| | | | 2.665 | 3.592 | 0.752 |
| 1826 | TMCEN | 860422 | 0.126 | 0.264 | 0.035 |
| | | | 3.226 | 6.598 | 1.447 |
| 1874 | TMCEN | 860506 | 0.186 | 1.248 | 0.143 |
| | | | 4.763 | 31.132 | 5.887 |
| 1882 | TMCEN | 860513 | 0.378 | 0.107 | 0.051 |
| | | | 9.667 | 2.669 | 2.080 |
| 1892 | TMCEN | 860527 | 0.026 | 0.119 | 0.015 |
| | | | 0.660 | 2.959 | 0.601 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1904 | TNCEN | 860520 |  | 1200 | 860527 | 1200 | 860613 | 6 | 2.19 | 3865.00 | 24.2 |
| 1922 | TNCEN | 860603 |  | 1200 | 860610 | 1200 | 860617 | 7 | 1.58 | 2785.00 | 33.6 |
| 1944 | TNCEN | 860610 |  | 1200 | 860617 | 1200 | 860701 | 2 | 0.68 | 1244.00 | 14.1 |
| 1957 | TNCEN | 860624 |  | 1200 | 860701 | 1200 | 860708 | 4 | 0.30 | 536.00 | 32.6 |
| 1981 | TNCEN | 860701 |  | 1200 | 860708 | 1200 | 860717 | 2 | 1.45 | 2666.00 | 11.6 |
| 1990 | TNCEN | 860708 |  | 1200 | 860715 | 1200 | 860724 | 5 | 1.77 | 3096.00 | 23.0 |
| 2079 | TNCEN | 860805 |  | 1200 | 860812 | 1200 | 860820 | 1 |  | 1545.00 | 17.2 |
| 2100 | TNCEN | 860812 |  | 1200 | 860819 | 1200 | 860828 |  |  | 2327.00 | 27.2 |
| 2134 | TNCEN | 860826 |  | 1200 | 860902 | 1200 | 860916 | 7 | 2.35 | 4144.00 | 27.6 |
| 2142 | TNCEN | 860902 |  | 1200 | 860909 | 1200 | 860917 | 3 | 3.36 | 6133.00 | 16.2 |
| 2173 | TNCEN | 860909 |  | 1200 | 860916 | 1200 | 860925 | 2 | 0.52 | 935.00 | 8.8 |
| 2204 | TNCEN | 860923 |  | 1200 | 860930 | 1200 | 861007 | 2 | 0.50 | 952.00 | 10.1 |
| 2224 | TNCEN | 860930 |  | 1200 | 861007 | 1200 | 861017 | 2 | 0.51 | 861.00 | 14.6 |
| 2249 | TNCEN | 861007 |  | 1200 | 861014 | 1200 | 861028 | 2 | 2.28 | 4125.00 | 6.9 |
| 2265 | TNCEN | 860916 |  | 1200 | 860923 | 1200 | 861030 | 2 | 0.13 | 1726.00 | 42.4 |
| 2340 | TNCEN | 861111 |  | 1200 | 861118 | 1200 | 861125 | 1 | 0.04 | 246.00 |  |
| 2349 | TNCEN | 861104 |  | 1200 | 861111 | 1200 | 861129 | 7 | 5.54 | 9680.00 | 15.3 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2379 | TNCEN | 861118 | | 1200 | 861125 | 1200 | 861209 | 5 | 1.35 | 94.00 | 16.3 |
| 2398 | TNCEN | 861125 | | 1200 | 861202 | 1600 | 861212 | 5 | 1.16 | 2262.00 | 11.0 |
| 2413 | TNCEN | 861202 | | 1600 | 861209 | 1200 | 861222 | 3 | 2.21 | 4170.00 | 13.3 |
| 2414 | TNCEN | 861209 | | 1200 | 861216 | 1200 | 861222 | 2 | 0.23 | 480.00 | 12.7 |
| 2467 | TNCEN | 861216 | | 1200 | 861223 | 1200 | 870109 | 2 | 0.31 | 686.00 | 218.0 |
| 2496 | TNCEN | 861223 | | 1200 | 861230 | 1200 | 870116 | 2 | 1.05 | 1942.00 | 12.7 |
| 2497 | TNCEN | 861230 | 3 | 1200 | 870106 | 1200 | 870116 | | | 74.00 | |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1904 | TNCEN | 860520 | 4.13 |  |  | 1.00 | 1.07 | 450.0 | 4.31 | 56.6 | 25.1 |
| 1922 | TNCEN | 860603 | 4.11 | 3 |  | 1.05 | 1.00 | 450.0 | 4.17 | 77.2 | 33.2 |
| 1944 | TNCEN | 860610 | 4.63 |  |  | 0.97 | 1.05 | 480.0 | 4.68 | 26.9 | 14.3 |
| 1957 | TNCEN | 860624 | 4.14 |  |  | 1.03 | 1.01 | 425.0 | 4.21 | 70.0 | 32.7 |
| 1981 | TNCEN | 860701 | 4.61 |  | 34 | 1.03 | 1.14 | 450.0 | 4.60 | 29.0 | 10.9 |
| 1990 | TNCEN | 860708 | 4.37 |  | 34 | 1.03 | 1.08 | 475.0 | 4.31 | 58.7 | 23.5 |
| 2079 | TNCEN | 860805 | 4.34 |  |  | 1.04 | 1.10 | 450.0 | 4.49 | 38.8 | 16.1 |
| 2100 | TNCEN | 860812 | 4.22 |  |  | 1.03 | 1.17 | 450.0 | 4.25 | 61.6 | 22.5 |
| 2134 | TNCEN | 860826 | 4.17 |  |  | 1.06 | 1.13 | 420.0 | 4.27 | 58.9 | 22.0 |
| 2142 | TNCEN | 860902 | 4.42 |  |  | 1.07 | 1.18 | 440.0 | 4.44 | 41.5 | 14.2 |
| 2173 | TNCEN | 860909 | 4.66 |  |  | 1.01 | 1.29 | 450.0 | 4.71 | 22.8 | 7.5 |
| 2204 | TNCEN | 860923 | 5.61 | 3 |  | 0.71 | 1.06 | 490.0 | 5.86 |  | 8.9 |
| 2224 | TNCEN | 860930 | 4.80 | 3 | 34 | 0.91 | 1.07 | 425.0 | 5.14 | 16.1 | 11.3 |
| 2249 | TNCEN | 861007 | 4.82 |  |  | 1.04 | 1.31 | 450.0 | 4.88 | 18.7 | 4.7 |
| 2265 | TNCEN | 860916 | 4.05 |  |  | 1.08 | 1.05 | 460.0 | 4.03 | 103.2 | 42.1 |
| 2340 | TNCEN | 861111 |  | 3 |  | 1.07 | 1.05 | 110.0 | 4.17 | 74.2 | 31.1 |
| 2349 | TNCEN | 861104 | 5.30 |  |  | 1.10 | 1.11 | 450.0 | 4.51 | 35.8 | 13.6 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2379 | TMCEN | 861118 | 4.38 | | | 1.04 | 1.13 | 475.0 | 4.46 | 40.6 | 14.3 |
| 2398 | TMCEN | 861125 | 4.63 | | 34 | 1.06 | 1.22 | 550.0 | 4.68 | 26.5 | 8.1 |
| 2413 | TMCEN | 861202 | 4.65 | 3 | 34 | 1.07 | 1.17 | 450.0 | 4.64 | 28.2 | 9.8 |
| 2414 | TMCEN | 861209 | 4.60 | 3 | | 1.08 | 1.23 | 370.0 | 4.61 | 30.5 | 9.4 |
| 2467 | TMCEN | 861216 | 4.41 | | | 1.08 | 1.10 | 450.0 | 4.36 | 49.3 | 18.9 |
| 2496 | TMCEN | 861223 | 4.68 | | 34 | 1.05 | 1.22 | 420.0 | 4.65 | 28.2 | 9.2 |
| 2497 | TMCEN | 861230 | | | | 1.05 | 0.95 | 70.0 | 3.68 | 93.3 | 122.9 |

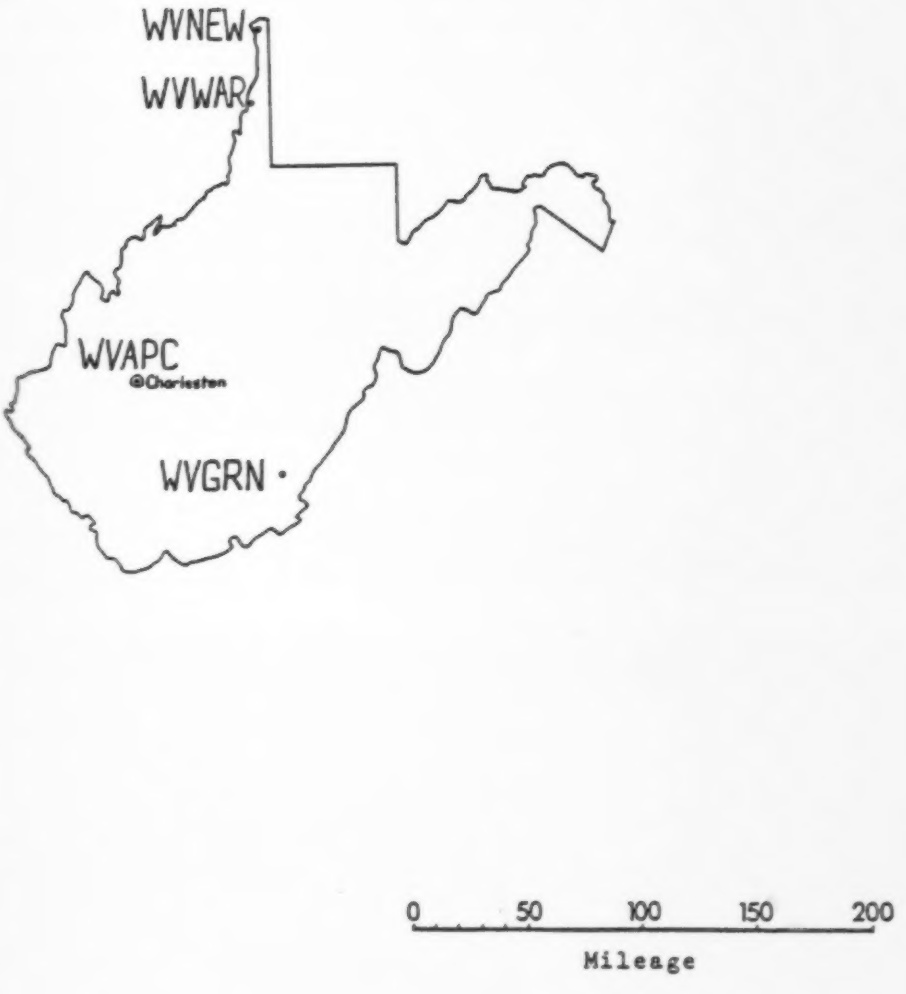
| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1904 | TNCEN | 860520 | 0.014 | 0.157 | -0.008 | -0.025 | -0.013 | 1.642 | 2.860 | 0.404 | 0.076 |
|  |  |  | 0.741 | 4.414 | -0.177 | -0.263 | -0.158 | 26.435 | 29.749 | 22.366 | 3.323 |
| 1922 | TNCEN | 860603 | 0.020 | 0.143 | -0.012 | -0.021 | -0.007 | 1.809 | 3.294 | 0.360 | 0.071 |
|  |  |  | 1.075 | 4.035 | -0.261 | -0.220 | -0.087 | 29.124 | 34.253 | 19.924 | 3.077 |
| 1944 | TNCEN | 860610 | 0.020 | 0.190 | 0.000 | 0.005 | 0.000 | 0.963 | 1.970 | 0.394 | 0.125 |
|  |  |  | 1.032 | 5.346 | 0.000 | 0.051 | 0.000 | 15.502 | 20.485 | 21.825 | 5.437 |
| 1957 | TNCEN | 860624 | 0.027 | 0.270 | -0.008 | 0.026 | -0.005 | 2.377 | 3.118 | 0.361 | 0.085 |
|  |  |  | 1.414 | 7.628 | -0.185 | 0.276 | -0.063 | 38.264 | 32.424 | 20.026 | 3.689 |
| 1981 | TNCEN | 860701 | 0.008 | 0.065 | -0.007 | 0.039 | -0.012 | 0.523 | 1.284 | 0.088 | 0.055 |
|  |  |  | 0.403 | 1.825 | -0.147 | 0.406 | -0.148 | 8.417 | 13.349 | 4.848 | 2.378 |
| 1990 | TNCEN | 860708 | 0.021 | 0.304 | -0.003 | 0.042 | -0.017 | 1.449 | 2.377 | 0.158 | 0.193 |
|  |  |  | 1.126 | 8.571 | -0.064 | 0.440 | -0.219 | 23.332 | 24.724 | 8.771 | 8.406 |
| 2079 | TNCEN | 860805 | 0.016 | 0.132 | -0.005 | -0.038 | -0.021 | 1.382 | 1.700 | 0.185 | 0.077 |
|  |  |  | 0.867 | 3.728 | -0.112 | -0.396 | -0.262 | 22.258 | 17.675 | 10.254 | 3.341 |
| 2100 | TNCEN | 860812 | 0.021 | 0.082 | -0.005 | 0.054 | -0.017 | 1.035 | 2.521 | 0.165 | 0.024 |
|  |  |  | 1.089 | 2.326 | -0.103 | 0.563 | -0.208 | 16.664 | 26.219 | 9.164 | 1.027 |
| 2134 | TNCEN | 860826 | 0.007 | 0.058 | -0.021 | 0.044 | -0.004 | 0.860 | 2.536 | 0.154 | 0.032 |
|  |  |  | 0.385 | 1.644 | -0.464 | 0.460 | -0.047 | 13.840 | 26.370 | 8.545 | 1.401 |
| 2142 | TNCEN | 860902 | 0.008 | 0.046 | 0.012 | 0.079 | 0.024 | 0.767 | 1.471 | 0.111 | 0.014 |
|  |  |  | 0.439 | 1.310 | 0.257 | 0.835 | 0.304 | 12.354 | 15.303 | 6.159 | 0.593 |
| 2173 | TNCEN | 860909 | 0.010 | 0.058 | -0.012 | 0.029 | -0.026 | 0.485 | 0.905 | 0.065 | 0.035 |
|  |  |  | 0.512 | 1.649 | -0.254 | 0.308 | -0.322 | 7.815 | 9.413 | 3.601 | 1.535 |
| 2204 | TNCEN | 860923 | 0.027 | 0.183 | -0.024 | 0.033 | -0.012 | 0.425 | 1.810 | -0.002 | 0.105 |
|  |  |  | 1.412 | 5.156 | -0.522 | 0.351 | -0.149 | 6.842 | 18.829 | -0.125 | 4.555 |
| 2224 | TNCEN | 860930 | 0.015 | 0.426 | 0.000 | 0.027 | 0.000 | 1.186 | 1.727 | 0.490 | 0.281 |
|  |  |  | 0.765 | 12.008 | 0.000 | 0.286 | 0.000 | 19.088 | 17.956 | 27.168 | 12.230 |
| 2249 | TNCEN | 861007 | 0.002 | 0.020 | 0.000 | 0.034 | 0.000 | 0.342 | 0.496 | 0.052 | 0.007 |
|  |  |  | 0.090 | 0.561 | 0.000 | 0.356 | 0.000 | 5.510 | 5.155 | 2.860 | 0.295 |
| 2265 | TNCEN | 860916 | 0.016 | 0.173 | -0.006 | 0.067 | -0.019 | 1.726 | 4.610 | 0.293 | 0.083 |
|  |  |  | 0.867 | 4.872 | -0.137 | 0.701 | -0.238 | 27.789 | 47.946 | 16.220 | 3.615 |
| 2340 | TNCEN | 861111 | -0.003 | 0.165 | 0.019 | 0.046 | -0.015 | 2.148 | 2.788 | 0.181 | 0.076 |
|  |  |  | -0.145 | 4.647 | 0.424 | 0.488 | -0.183 | 34.586 | 28.999 | 10.046 | 3.316 |
| 2349 | TNCEN | 861104 | -0.003 | 0.173 | 0.017 | 0.061 | -0.013 | 0.719 | 1.362 | 0.104 | 0.096 |
|  |  |  | -0.151 | 4.886 | 0.370 | 0.639 | -0.168 | 11.574 | 14.166 | 5.743 | 4.166 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2379 | TNCEN | 861118 | -0.000 | 0.066 | 0.009 | 0.022 | 0.066 | 0.866 | 1.363 | 0.127 | 0.019 |
| | | | -0.026 | 1.852 | 0.193 | 0.233 | 0.830 | 13.947 | 14.179 | 7.060 | 0.844 |
| 2398 | TNCEN | 861125 | 0.004 | 0.046 | 0.011 | 0.045 | -0.032 | 0.580 | 0.799 | 0.069 | 0.020 |
| | | | 0.230 | 1.295 | 0.235 | 0.474 | -0.395 | 9.335 | 8.305 | 3.831 | 0.854 |
| 2413 | TNCEN | 861202 | -0.004 | 0.231 | -0.006 | 0.098 | -0.044 | 0.517 | 0.949 | 0.085 | 0.122 |
| | | | -0.223 | 6.504 | -0.133 | 1.024 | -0.548 | 8.329 | 9.871 | 4.735 | 5.320 |
| 2414 | TNCEN | 861209 | -0.004 | 0.041 | -0.006 | 0.083 | -0.044 | 0.595 | 0.997 | 0.081 | 0.007 |
| | | | -0.225 | 1.170 | -0.136 | 0.873 | -0.555 | 9.572 | 10.366 | 4.506 | 0.294 |
| 2467 | TNCEN | 861216 | -0.008 | 0.183 | -0.009 | -0.043 | 0.135 | 1.340 | 1.674 | 0.142 | 0.087 |
| | | | -0.414 | 5.159 | -0.191 | -0.451 | 1.692 | 21.573 | 17.414 | 7.851 | 3.805 |
| 2496 | TNCEN | 861223 | -0.005 | 0.152 | -0.009 | 0.015 | -0.012 | 0.542 | 1.065 | 0.069 | 0.074 |
| | | | -0.276 | 4.290 | -0.194 | 0.158 | -0.155 | 8.726 | 11.071 | 3.835 | 3.226 |
| 2497 | TNCEN | 861230 | 0.065 | 1.018 | -0.009 | 0.029 | 0.105 | 11.175 | 9.995 | 2.262 | 0.059 |
| | | | 3.440 | 28.711 | -0.199 | 0.300 | 1.309 | 179.919 | 103.946 | 125.312 | 2.584 |

| ID | STN | BD | K ug/ml umoles/l | CA ug/ml umoles/l | MG ug/ml umoles/l |
|---|---|---|---|---|---|
| 1904 | TMCEN | 860520 | 0.036 | 0.274 | 0.023 |
| | | | 0.924 | 6.848 | 0.963 |
| 1922 | TMCEN | 860603 | 0.034 | 0.125 | 0.014 |
| | | | 0.871 | 3.106 | 0.590 |
| 1944 | TMCEN | 860610 | 0.021 | 0.277 | 0.029 |
| | | | 0.550 | 6.911 | 1.180 |
| 1957 | TMCEN | 860624 | 0.031 | 0.412 | 0.041 |
| | | | 0.792 | 10.285 | 1.687 |
| 1981 | TMCEN | 860701 | 0.013 | 0.079 | 0.011 |
| | | | 0.326 | 1.959 | 0.466 |
| 1990 | TMCEN | 860708 | 0.022 | 0.237 | 0.040 |
| | | | 0.552 | 5.912 | 1.662 |
| 2079 | TMCEN | 860805 | 0.032 | 0.232 | 0.023 |
| | | | 0.819 | 5.798 | 0.936 |
| 2100 | TMCEN | 860812 | 0.006 | 0.104 | 0.007 |
| | | | 0.145 | 2.594 | 0.286 |
| 2134 | TMCEN | 860826 | 0.010 | 0.046 | 0.007 |
| | | | 0.251 | 1.143 | 0.297 |
| 2142 | TMCEN | 860902 | -0.003 | 0.032 | 0.002 |
| | | | -0.089 | 0.796 | 0.085 |
| 2173 | TMCEN | 860909 | -0.007 | 0.083 | 0.011 |
| | | | -0.175 | 2.074 | 0.456 |
| 2204 | TMCEN | 860923 | 1.950 | 0.234 | 0.075 |
| | | | 49.887 | 5.850 | 3.067 |
| 2224 | TMCEN | 860930 | 0.088 | 0.455 | 0.048 |
| | | | 2.259 | 11.343 | 1.988 |
| 2249 | TMCEN | 861007 | 0.006 | 0.008 | 0.001 |
| | | | 0.163 | 0.209 | 0.051 |
| 2265 | TMCEN | 860916 | 0.018 | 0.140 | 0.017 |
| | | | 0.457 | 3.602 | 0.691 |
| 2340 | TMCEN | 861111 | 0.065 | 0.191 | 0.018 |
| | | | 1.656 | 4.753 | 0.721 |
| 2349 | TMCEN | 861104 | 0.011 | 0.024 | 0.012 |
| | | | 0.286 | 0.591 | 0.502 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2379 | TNCEN | 861118 | 0.024<br>0.608 | 0.022<br>0.544 | 0.003<br>0.129 |
| 2398 | TNCEN | 861125 | 0.018<br>0.459 | 0.028<br>0.702 | 0.004<br>0.183 |
| 2413 | TNCEN | 861202 | 0.015<br>0.383 | 0.015<br>0.372 | 0.015<br>0.607 |
| 2414 | TNCEN | 861209 | 0.011<br>0.281 | 0.039<br>0.972 | 0.004<br>0.163 |
| 2467 | TNCEN | 861216 | 0.061<br>1.549 | 0.030<br>0.743 | 0.005<br>0.203 |
| 2496 | TNCEN | 861223 | 0.018<br>0.467 | 0.068<br>1.695 | 0.011<br>0.436 |
| 2497 | TNCEN | 861230 | 0.528<br>13.498 | 0.718<br>17.902 | 0.200<br>8.208 |

WEST VIRGINIA


WVNEW
WVWAR
WVAPC
Charleston
WVGRN
0
50
100
150
200
Mileage

NOTE: ⊙ Major city for reference
* EPA Acid Rain Site (nearest city)

Preceding page blank

## WEST VIRGINIA

| SITE | SITE NAME | NEAREST CITY | COUNTY | SAMPLING PERIOD[1] BEGIN | END | #SAMPLES | %NON-VOID[2] |
|---|---|---|---|---|---|---|---|
| WVAPC | Charleston APC | Charleston | Kanawha | | | 35 | 100 |
| WVGRN | Greenbrier | Lewisburg | Greenbrier | | | 28 | 100 |
| WVNEW | New Manchester | New Comberland | Hancock | | | 35 | 94 |
| WVWAR | Warwood Ave. | Wheeling | Ohio | | | 27 | 96 |

(1) JAN - DEC 1986 unless otherwise noted.

(2) Percentage of samples received which were not voided by GGC due to contamination.

Figure 2-1 (continued)
Site: WVAPC
Data Plots, JAN '86 - DEC '86

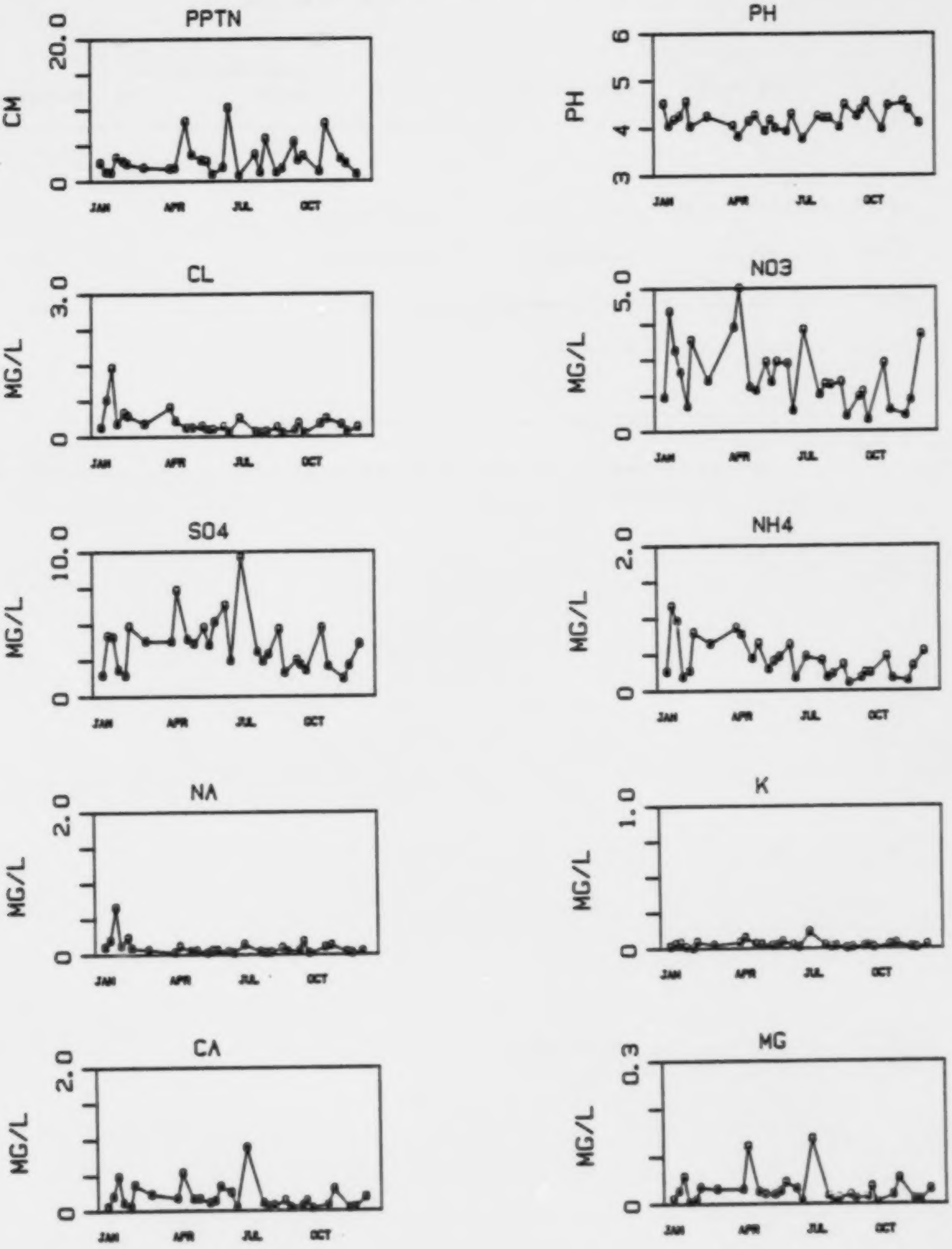


Figure 2-1 (continued)
Site: WVGRN
Data Plots, JAN '86 - DEC '86

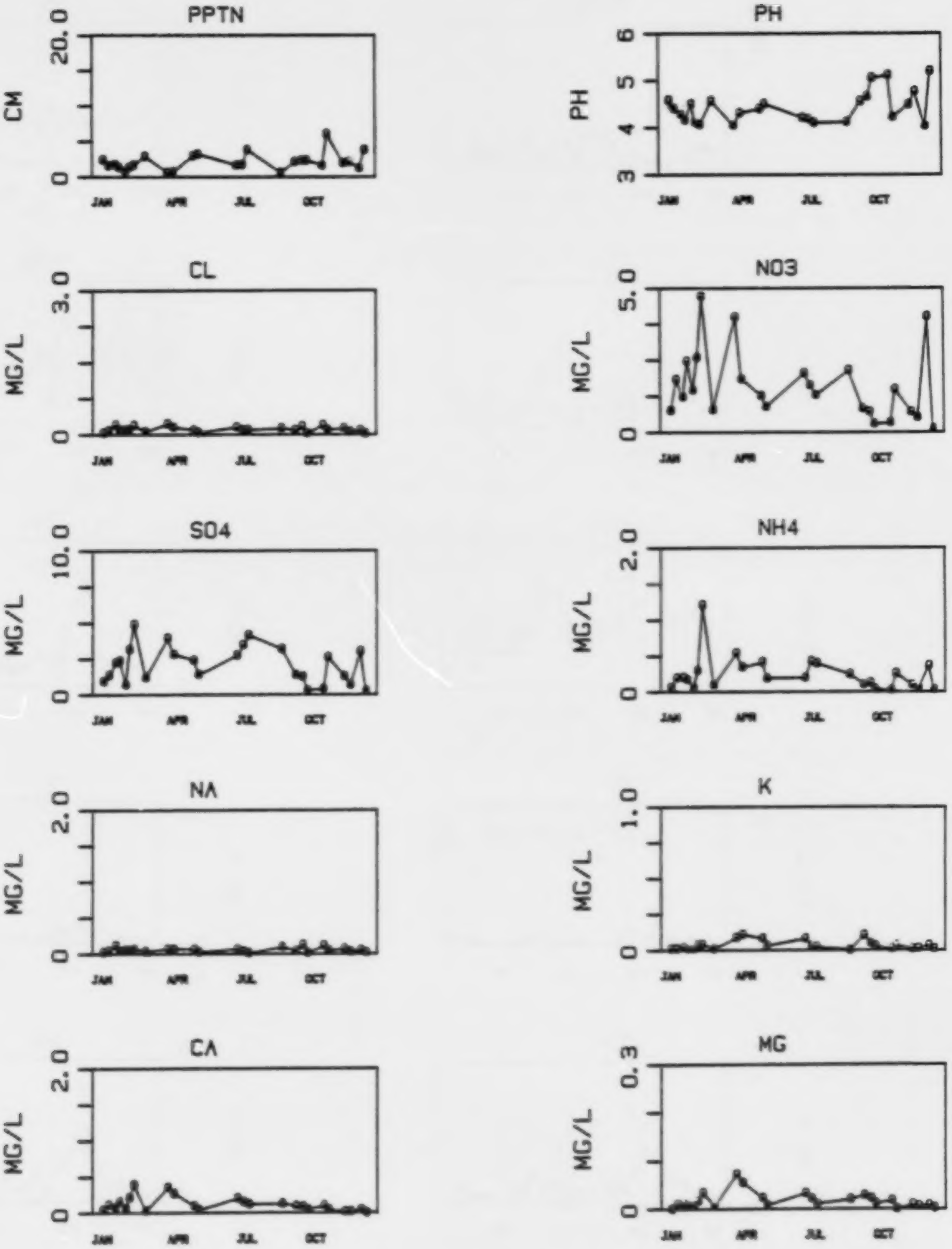


Figure 2-1 (continued)

Site: WVNEW

Data Plots, JAN '86 - DEC '86

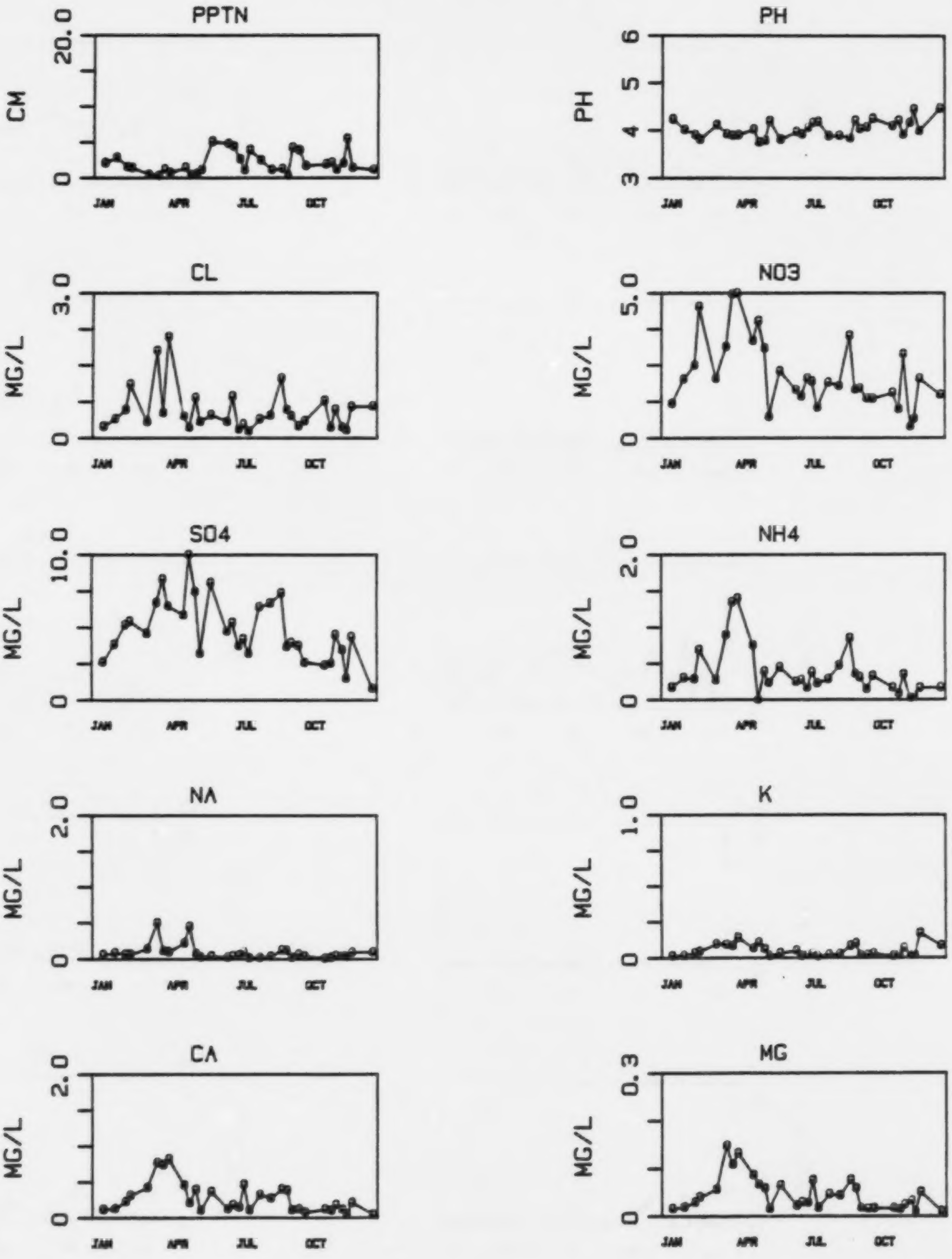
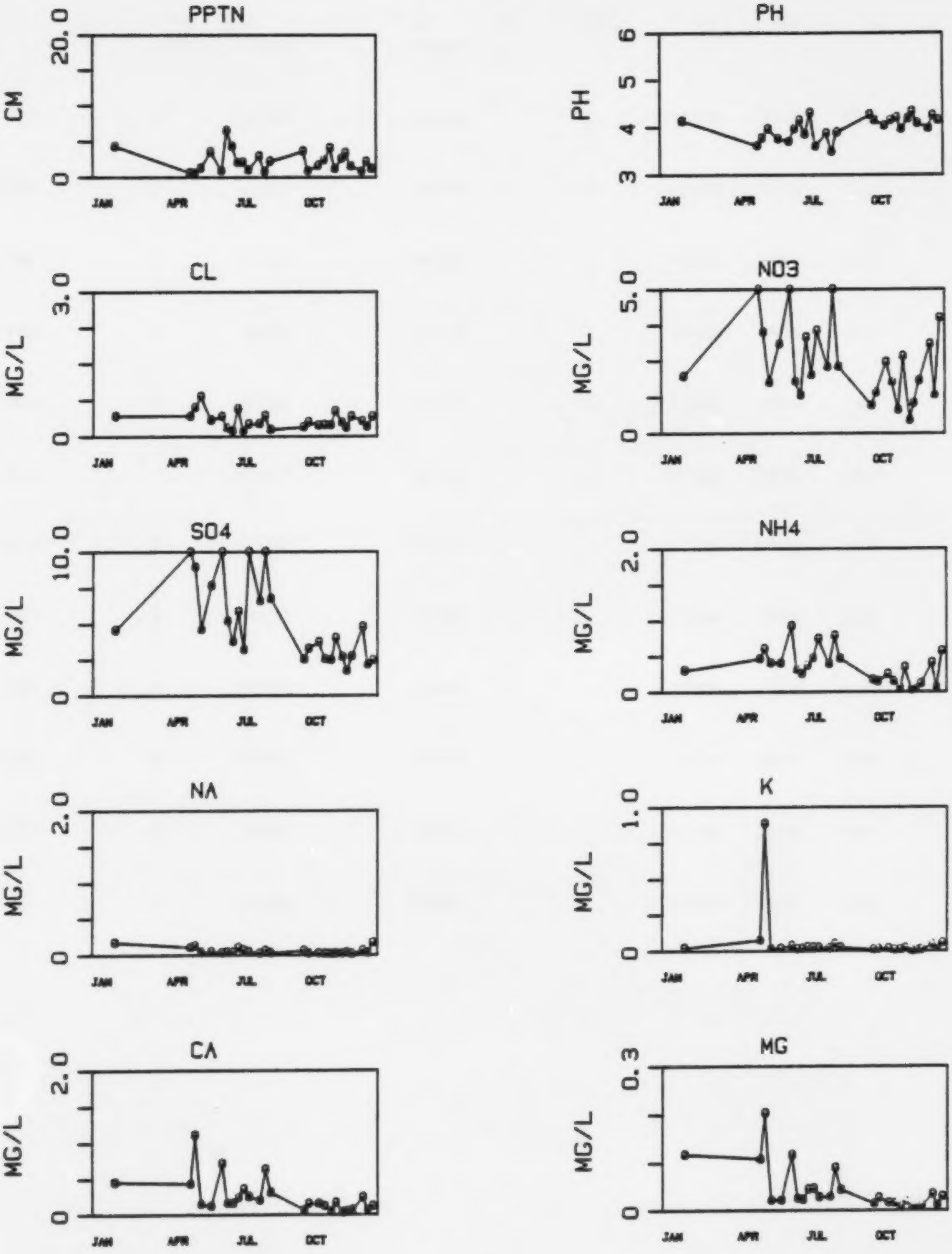


Figure 2-1 (continued)

Site: WVWAR

Data Plots, JAN '86 - DEC '86



| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1593 | WVAPC | 860114 | 2 | | 860121 | | 860206 | 1 | | 1736.20 | 17.0 |
| 1603 | WVAPC | 860121 | 2 | | 860128 | | 860210 | 1 | | 898.00 | 52.6 |
| 1610 | WVAPC | 860128 | 2 | | 860204 | | 860214 | 3 | | 847.90 | 43.8 |
| 1629 | WVAPC | 860204 | 2 | | 860213 | | 860221 | 2 | | 2267.30 | 26.4 |
| 1664 | WVAPC | 860218 | 2 | | 860225 | | 860310 | 6 | | 1646.70 | 47.7 |
| 1684 | WVAPC | 860213 | 2 | | 860218 | | 860314 | | | 1085.40 | 16.9 |
| 1740 | WVAPC | 860312 | | | 860318 | | 860409 | 3 | | 1317.10 | 30.4 |
| 1805 | WVAPC | 860415 | | | 860422 | | 860505 | 6 | | 1187.10 | 45.4 |
| 1827 | WVAPC | 860422 | | | 860429 | | 860509 | 2 | | 1226.70 | 72.6 |
| 1847 | WVAPC | 860506 | | | 860514 | | 860527 | 4 | | 5639.80 | 35.7 |
| 1883 | WVAPC | 860514 | | | 860520 | | 860606 | 6 | | 2493.90 | 29.7 |
| 1884 | WVAPC | 860520 | | | 860527 | | 860606 | 5 | | 538.60 | 44.9 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1593 | WVAPC | 860114 | 4.51 | 3 |  | 1.10 | 1.05 | 525.000 | 4.51 | 38.92 | 15.9 |
| 1603 | WVAPC | 860121 | 4.08 |  |  | 1.04 | 0.98 | 330.000 | 4.05 | 98.18 | 51.6 |
| 1610 | WVAPC | 860128 | 4.20 | 3 | 33 | 1.00 | 0.96 | 330.000 | 4.18 | 72.72 | 44.9 |
| 1625 | WVAPC | 860204 | 4.30 | 3 | 33 | 1.04 | 1.11 | 450.000 | 4.26 | 57.99 | 23.9 |
| 1664 | WVAPC | 860218 | 4.05 |  |  | 1.04 | 0.99 | 370.000 | 4.03 | 106.11 | 50.1 |
| 1684 | WVAPC | 860213 | 4.62 |  |  | 1.02 | 1.04 | 400.000 | 4.55 | 34.87 | 15.5 |
| 1740 | WVAPC | 860312 | 4.30 | 3 |  | 1.06 | 1.08 | 330.000 | 4.24 | 62.52 | 30.2 |
| 1805 | WVAPC | 860415 | 4.08 | 3 | 33 | 1.03 | 1.03 | 275.000 | 4.04 | 96.39 | 46.2 |
| 1827 | WVAPC | 860422 | 3.86 |  | 33 | 1.05 | 1.05 | 315.000 | 3.82 | 158.02 | 73.1 |
| 1847 | WVAPC | 860506 | 4.15 |  | 33 | 1.04 | 1.04 | 475.000 | 4.14 | 79.90 | 35.1 |
| 1883 | WVAPC | 860514 | 4.29 | 3 |  | 1.01 | 1.06 | 395.000 | 4.26 | 61.90 | 28.7 |
| 1884 | WVAPC | 860520 | 4.01 |  | 32 | 1.05 | 1.02 | 135.000 | 4.01 | 108.10 | 45.7 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1593 | WVAPC | 860114 | 0.013 | 0.194 | -0.010 | 0.060 | 0.080 | 1.195 | 1.477 | 0.265 | 0.101 |
| | | | 0.684 | 5.463 | -0.212 | 0.635 | 1.006 | 19.231 | 15.357 | 14.691 | 4.412 |
| 1603 | WVAPC | 860121 | 0.060 | 0.773 | -0.007 | -0.013 | 0.156 | 4.179 | 4.230 | 1.166 | 0.203 |
| | | | 3.161 | 21.809 | -0.148 | -0.138 | 1.947 | 67.282 | 43.993 | 64.587 | 8.821 |
| 1610 | WVAPC | 860128 | 0.050 | 1.443 | -0.007 | -0.015 | 0.175 | 2.820 | 4.113 | 0.960 | 0.662 |
| | | | 2.634 | 40.700 | -0.157 | -0.162 | 2.193 | 45.398 | 42.779 | 53.164 | 28.810 |
| 1629 | WVAPC | 860204 | 0.009 | 0.270 | -0.011 | -0.022 | -0.046 | 2.065 | 1.844 | 0.192 | 0.118 |
| | | | 0.490 | 7.612 | -0.244 | -0.236 | -0.580 | 33.239 | 19.180 | 10.655 | 5.149 |
| 1664 | WVAPC | 860210 | 0.041 | 0.426 | -0.013 | -0.054 | 0.161 | 3.178 | 4.859 | 0.802 | 0.085 |
| | | | 2.150 | 12.010 | -0.293 | -0.570 | 2.012 | 51.166 | 50.530 | 44.405 | 3.706 |
| 1684 | WVAPC | 860213 | 0.016 | 0.501 | -0.013 | -0.050 | -0.060 | 0.869 | 1.437 | 0.275 | 0.234 |
| | | | 0.826 | 14.119 | -0.286 | -0.527 | -0.756 | 13.991 | 14.943 | 15.229 | 10.182 |
| 1740 | WVAPC | 860312 | 0.025 | 0.264 | -0.012 | -0.022 | -0.047 | 1.767 | 3.809 | 0.648 | 0.061 |
| | | | 1.302 | 7.432 | -0.252 | -0.229 | -0.585 | 28.448 | 39.619 | 35.914 | 2.635 |
| 1805 | WVAPC | 860415 | 0.048 | 0.608 | -0.017 | -0.015 | -0.007 | 3.630 | 3.792 | 0.866 | 0.027 |
| | | | 2.527 | 17.156 | -0.359 | -0.152 | -0.083 | 58.444 | 39.437 | 47.950 | 1.156 |
| 1827 | WVAPC | 860422 | 0.037 | 0.319 | -0.006 | 0.028 | 0.038 | 5.223 | 7.313 | 0.774 | 0.112 |
| | | | 1.941 | 8.993 | -0.120 | 0.294 | 0.481 | 84.097 | 76.059 | 42.870 | 4.868 |
| 1847 | WVAPC | 860506 | 0.019 | 0.171 | -0.010 | 0.038 | -0.020 | 1.542 | 3.954 | 0.446 | 0.039 |
| | | | 0.986 | 4.820 | -0.218 | 0.397 | -0.245 | 24.828 | 41.123 | 24.713 | 1.717 |
| 1883 | WVAPC | 860514 | 0.019 | 0.179 | -0.012 | -0.018 | -0.004 | 1.420 | 3.632 | 0.648 | 0.051 |
| | | | 0.998 | 5.040 | -0.262 | -0.188 | -0.044 | 22.868 | 37.775 | 35.876 | 2.222 |
| 1884 | WVAPC | 860520 | 0.031 | 0.212 | -0.012 | -0.019 | -0.004 | 2.741 | 4.172 | 0.308 | 0.041 |
| | | | 1.627 | 5.965 | -0.256 | -0.194 | -0.044 | 44.135 | 43.391 | 17.078 | 1.780 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1593 | WVAPC | 860114 | 0.012 | 0.056 | 0.010 |
| | | | 0.318 | 1.409 | 0.422 |
| 1603 | WVAPC | 860121 | 0.031 | 0.206 | 0.028 |
| | | | 0.788 | 5.141 | 1.132 |
| 1610 | WVAPC | 860128 | 0.038 | 0.477 | 0.057 |
| | | | 0.974 | 11.910 | 2.347 |
| 1629 | WVAPC | 860204 | 0.010 | 0.112 | 0.005 |
| | | | 0.256 | 2.788 | 0.205 |
| 1664 | WVAPC | 860218 | 0.043 | 0.362 | 0.034 |
| | | | 1.097 | 9.033 | 1.414 |
| 1684 | WVAPC | 860213 | 0.002 | 0.065 | 0.011 |
| | | | 0.058 | 1.634 | 0.443 |
| 1740 | WVAPC | 860312 | 0.022 | 0.231 | 0.031 |
| | | | 0.551 | 5.758 | 1.266 |
| 1805 | WVAPC | 860415 | 0.042 | 0.176 | 0.031 |
| | | | 1.073 | 4.383 | 1.266 |
| 1827 | WVAPC | 860422 | 0.072 | 0.533 | 0.121 |
| | | | 1.836 | 13.289 | 4.988 |
| 1847 | WVAPC | 860506 | 0.031 | 0.165 | 0.025 |
| | | | 0.800 | 4.120 | 1.046 |
| 1883 | WVAPC | 860514 | 0.027 | 0.167 | 0.021 |
| | | | 0.685 | 4.175 | 0.857 |
| 1884 | WVAPC | 860520 | 0.015 | 0.256 | 0.033 |
| | | | 0.371 | 6.385 | 1.344 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1935 | WVAPC | 860603 | | | 860610 | | 860625 | 4 | | 1865.40 | 33.6 |
| 1938 | WVAPC | 860527 | | | 860603 | | 860627 | 4 | | 1935.30 | 52.2 |
| 1966 | WVAPC | 860624 | | | 860701 | | 860711 | 4 | | 1316.80 | 55.4 |
| 1998 | WVAPC | 860701 | | | 860708 | | 860725 | 2 | | 6948.00 | 22.4 |
| 2036 | WVAPC | 860610 | | | 860617 | | 860807 | | | 628.30 | 48.2 |
| 2037 | WVAPC | 860715 | | | 860722 | | 860807 | 1 | | 548.50 | 80.6 |
| 2076 | WVAPC | 860805 | | | 860812 | | 860819 | 6 | | 2513.20 | 28.1 |
| 2107 | WVAPC | 860819 | | | 860826 | | 860903 | 4 | | 3990.00 | 28.0 |
| 2146 | WVAPC | 860812 | | | 860819 | | 860918 | | | 807.80 | 28.0 |
| 2174 | WVAPC | 860826 | | | 860902 | | 860925 | 3 | | 1256.60 | 36.2 |
| 2175 | WVAPC | 860902 | | | 860909 | | 860925 | 2 | | 822.80 | 42.2 |
| 2190 | WVAPC | 860909 | | | 860916 | | 860926 | 1 | | 1207.00 | 13.9 |
| 2244 | WVAPC | 860925 | | | 861001 | | 861027 | 3 | | 3690.00 | 25.2 |
| 2245 | WVAPC | 861007 | | | 861014 | | 861027 | 5 | | 2384.20 | 14.2 |
| 2272 | WVAPC | 860930 | | 836 | 861007 | 845 | 861031 | 3 | 1.13 | 897.80 | 21.6 |
| 2322 | WVAPC | 861028 | | | 861105 | | 861121 | | | 897.60 | 44.8 |
| 2341 | WVAPC | 861105 | | | 861112 | | 861125 | | | 5410.40 | 18.1 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2392 | WVAPC | 861118 | | | 861125 | | 861211 | | | 2784.50 | 21.2 |
| 2393 | WVAPC | 861125 | | | 861202 | | 861211 | | | 2105.80 | 13.3 |
| 2460 | WVAPC | 861202 | | | 861209 | | 870109 | | | 1636.40 | 18.7 |
| 2469 | WVAPC | 861216 | | | 861223 | | 870109 | | | 599.50 | 37.7 |
| 2492 | WVAPC | 861230 | 2 | | 870106 | | 870114 | | | 917.90 | 44.8 |
| 2526 | WVAPC | 861223 | 2 | | 861230 | | 870122 | | | 2515.00 | 10.6 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1935 | WVAPC | 860603 | 4.10 | | | 1.04 | 1.04 | 385.0 | 4.16 | 76.5 | 33.2 |
| 1938 | WVAPC | 860527 | 3.95 | | 33 | 1.05 | 1.00 | 440.0 | 3.94 | 126.7 | 52.5 |
| 1966 | WVAPC | 860624 | 3.95 | 3 | 33 | 1.05 | 1.02 | 330.0 | 3.93 | 127.7 | 57.0 |
| 1998 | WVAPC | 860701 | 4.30 | | | 1.05 | 1.04 | 480.0 | 4.29 | 60.0 | 23.0 |
| 2036 | WVAPC | 860610 | 4.00 | 3 | 33 | 1.03 | 1.01 | 200.0 | 4.00 | 109.8 | 49.2 |
| 2037 | WVAPC | 860715 | 3.80 | | | 1.05 | 0.99 | 195.0 | 3.77 | 195.1 | 86.0 |
| 2076 | WVAPC | 860805 | 4.40 | | | 1.04 | 1.13 | 530.0 | 4.25 | 63.5 | 25.3 |
| 2107 | WVAPC | 860819 | 4.32 | | | 1.13 | 1.16 | 430.0 | 4.21 | 68.0 | 25.5 |
| 2146 | WVAPC | 860812 | 4.26 | | | 1.08 | 1.06 | 250.0 | 4.21 | 68.6 | 26.9 |
| 2174 | WVAPC | 860826 | 4.15 | | 34 | 1.04 | 1.08 | 320.0 | 4.08 | 89.0 | 36.3 |
| 2175 | WVAPC | 860902 | 4.10 | | | 1.06 | 1.07 | 450.0 | 4.02 | 102.6 | 42.6 |
| 2190 | WVAPC | 860909 | 4.64 | | | 1.08 | 1.16 | 550.0 | 4.49 | 37.5 | 13.3 |
| 2244 | WVAPC | 860925 | 4.25 | | | 1.05 | 1.11 | 525.0 | 4.25 | 64.0 | 24.0 |
| 2245 | WVAPC | 861007 | 4.60 | | | 1.07 | 1.17 | 550.0 | 4.54 | 34.5 | 12.5 |
| 2272 | WVAPC | 860930 | 4.42 | 3 | | 1.07 | 1.13 | 550.0 | 4.38 | 45.8 | 19.8 |
| 2322 | WVAPC | 861028 | 4.10 | | | 1.04 | 1.02 | 225.0 | 3.98 | 113.0 | 49.2 |
| 2341 | WVAPC | 861105 | 5.10 | | | 1.02 | 1.10 | 450.0 | 4.47 | 40.3 | 17.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2392 | WDAPC | 861118 | 4.50 | 3 | 3133 | 0.96 | 1.08 | 230.0 | 4.49 | 37.1 | 20.8 |
| 2393 | WDAPC | 861125 | 4.50 |  |  | 1.10 | 1.16 | 280.0 | 4.55 | 32.2 | 11.8 |
| 2468 | WDAPC | 861202 | 4.48 |  |  | 1.07 | 1.12 | 290.0 | 4.39 | 45.5 | 18.4 |
| 2469 | WDAPC | 861216 | 4.11 | 3 |  | 1.13 | 1.02 | 240.0 | 4.10 | 89.3 | 40.0 |
| 2492 | WDAPC | 861230 | 4.03 | 3 | 3133 | 1.11 | 0.99 | 200.0 | 4.01 | 109.3 | 47.9 |
| 2526 | WDAPC | 861223 | 4.62 |  | 31 | 1.03 | 1.12 | 350.0 | 4.54 | 33.0 | 12.8 |

| ID | STN | DD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1935 | WPAPC | 860603 | 0.023 | 0.138 | -0.010 | 0.032 | -0.019 | 1.722 | 3.548 | 0.406 | 0.056 |
|  |  |  | 1.194 | 3.884 | -0.227 | 0.340 | -0.239 | 27.729 | 36.904 | 22.510 | 2.456 |
| 1938 | WPAPC | 860527 | 0.022 | 0.213 | -0.009 | -0.019 | -0.020 | 2.410 | 4.761 | 0.296 | 0.018 |
|  |  |  | 1.177 | 5.997 | -0.203 | -0.199 | -0.250 | 38.801 | 49.514 | 16.413 | 0.772 |
| 1966 | WPAPC | 860624 | 0.020 | 0.206 | -0.006 | 0.032 | -0.003 | 2.362 | 6.296 | 0.631 | 0.038 |
|  |  |  | 1.030 | 5.822 | -0.125 | 0.336 | -0.037 | 38.021 | 65.483 | 34.974 | 1.663 |
| 1990 | WPAPC | 860701 | 0.014 | 0.094 | -0.002 | 0.045 | -0.015 | 0.711 | 2.475 | 0.179 | 0.019 |
|  |  |  | 0.717 | 2.644 | -0.047 | 0.477 | -0.184 | 11.442 | 25.736 | 9.903 | 0.844 |
| 2036 | WPAPC | 860610 | 0.035 | 0.149 | -0.012 | 0.030 | -0.004 | 2.420 | 5.144 | 0.466 | 0.052 |
|  |  |  | 1.822 | 4.200 | -0.255 | 0.318 | -0.045 | 38.966 | 53.493 | 25.837 | 2.273 |
| 2037 | WPAPC | 860715 | 0.052 | 0.380 | -0.011 | 0.019 | -0.004 | 3.528 | 9.608 | 0.470 | 0.135 |
|  |  |  | 2.733 | 10.707 | -0.247 | 0.201 | -0.046 | 56.798 | 99.928 | 26.041 | 5.883 |
| 2076 | WPAPC | 860805 | 0.025 | 0.103 | -0.006 | 0.050 | -0.020 | 1.276 | 3.078 | 0.412 | 0.033 |
|  |  |  | 1.339 | 2.892 | -0.129 | 0.529 | -0.245 | 20.547 | 32.009 | 22.822 | 1.436 |
| 2107 | WPAPC | 860819 | 0.018 | 0.108 | -0.013 | -0.068 | -0.059 | 1.616 | 2.924 | 0.233 | 0.027 |
|  |  |  | 0.928 | 3.042 | -0.288 | -0.716 | -0.735 | 26.018 | 30.407 | 12.934 | 1.192 |
| 2146 | WPAPC | 860812 | 0.026 | 0.076 | 0.008 | 0.045 | -0.004 | 1.641 | 2.416 | 0.183 | 0.018 |
|  |  |  | 1.359 | 2.152 | 0.180 | 0.471 | -0.056 | 26.423 | 25.122 | 10.126 | 0.775 |
| 2174 | WPAPC | 860826 | 0.019 | 0.182 | -0.012 | 0.027 | -0.026 | 1.553 | 3.845 | 0.266 | 0.094 |
|  |  |  | 1.014 | 5.145 | -0.259 | 0.288 | -0.321 | 25.002 | 39.985 | 14.710 | 4.068 |
| 2175 | WPAPC | 860902 | 0.022 | 0.184 | -0.012 | 0.026 | -0.026 | 1.706 | 4.635 | 0.355 | 0.089 |
|  |  |  | 1.148 | 5.180 | -0.264 | 0.274 | -0.319 | 27.463 | 48.202 | 19.683 | 3.892 |
| 2190 | WPAPC | 860909 | 0.010 | 0.070 | -0.009 | 0.031 | -0.015 | 0.518 | 1.631 | 0.105 | 0.038 |
|  |  |  | 0.541 | 1.975 | -0.195 | 0.331 | -0.186 | 8.338 | 16.962 | 5.818 | 1.648 |
| 2244 | WPAPC | 860925 | 0.017 | 0.138 | 0.000 | 0.031 | 0.027 | 1.199 | 2.492 | 0.178 | 0.062 |
|  |  |  | 0.868 | 3.888 | 0.000 | 0.328 | 0.339 | 19.303 | 25.917 | 9.853 | 2.706 |
| 2245 | WPAPC | 861007 | 0.012 | 0.072 | 0.026 | 0.027 | 0.049 | 0.380 | 1.776 | 0.245 | 0.017 |
|  |  |  | 0.608 | 2.041 | 0.565 | 0.281 | 0.619 | 6.116 | 18.474 | 13.577 | 0.722 |
| 2272 | WPAPC | 860930 | 0.016 | 0.274 | -0.005 | 0.076 | -0.021 | 1.360 | 2.164 | 0.243 | 0.174 |
|  |  |  | 0.833 | 7.734 | -0.105 | 0.802 | -0.260 | 21.897 | 22.508 | 13.459 | 7.564 |
| 2322 | WPAPC | 861028 | 0.018 | 0.266 | -0.010 | 0.044 | -0.007 | 2.361 | 4.740 | 0.467 | 0.099 |
|  |  |  | 0.957 | 7.489 | -0.221 | 0.463 | -0.084 | 38.015 | 49.299 | 25.893 | 4.298 |
| 2341 | WPAPC | 861105 | 0.032 | 0.368 | 0.034 | 0.051 | 0.036 | 0.733 | 2.057 | 0.170 | 0.125 |
|  |  |  | 1.685 | 10.379 | 0.735 | 0.535 | 0.454 | 11.808 | 21.398 | 9.409 | 5.420 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2392 | WVAPC | 861118 | 0.029 | 0.483 | 0.019 | -0.016 | -0.028 | 1.163 | 2.795 | 0.259 | 0.083 |
|  |  |  | 1.515 | 13.618 | 0.419 | -0.167 | -0.356 | 18.814 | 29.070 | 14.325 | 3.621 |
| 2393 | WVAPC | 861125 | 0.018 | 0.241 | 0.022 | 0.041 | -0.029 | 0.537 | 1.200 | 0.135 | 0.029 |
|  |  |  | 0.951 | 6.790 | 0.469 | 0.435 | -0.358 | 8.641 | 12.477 | 7.475 | 1.281 |
| 2468 | WVAPC | 861202 | 0.022 | 0.100 | -0.009 | -0.044 | 0.141 | 1.080 | 2.107 | 0.333 | 0.013 |
|  |  |  | 1.167 | 2.833 | -0.187 | -0.461 | 1.768 | 17.396 | 21.911 | 18.475 | 0.574 |
| 2469 | WVAPC | 861216 | 0.033 | 0.183 | -0.008 | -0.045 | 0.219 | 3.346 | 3.598 | 0.536 | 0.036 |
|  |  |  | 1.760 | 5.147 | -0.184 | -0.471 | 2.737 | 53.872 | 37.417 | 29.708 | 1.573 |
| 2492 | WVAPC | 861230 | 0.032 | 0.456 | -0.007 | 0.027 | -0.015 | 4.062 | 3.196 | 0.477 | 0.068 |
|  |  |  | 1.659 | 12.857 | -0.161 | 0.288 | -0.182 | 65.395 | 33.235 | 26.448 | 2.962 |
| 2526 | WVAPC | 861223 | 0.016 | 0.077 | 0.026 | 0.042 | -0.008 | 0.718 | 1.374 | 0.197 | 0.026 |
|  |  |  | 0.823 | 2.168 | 0.572 | 0.443 | -0.100 | 11.564 | 14.291 | 10.896 | 1.125 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1935 | WVAPC | 860603 | 0.022<br>0.575 | 0.142<br>3.545 | 0.027<br>1.125 |
| 1938 | WVAPC | 860527 | 0.017<br>0.439 | 0.109<br>2.721 | 0.020<br>0.822 |
| 1966 | WVAPC | 860624 | 0.022<br>0.574 | 0.254<br>6.343 | 0.032<br>1.335 |
| 1998 | WVAPC | 860701 | 0.007<br>0.187 | 0.046<br>1.151 | 0.006<br>0.243 |
| 2036 | WVAPC | 860610 | 0.046<br>1.167 | 0.339<br>8.457 | 0.045<br>1.850 |
| 2037 | WVAPC | 860715 | 0.114<br>2.904 | 0.886<br>22.101 | 0.136<br>5.605 |
| 2076 | WVAPC | 860805 | 0.021<br>0.546 | 0.102<br>2.538 | 0.017<br>0.696 |
| 2107 | WVAPC | 860819 | 0.013<br>0.329 | 0.071<br>1.778 | 0.013<br>0.535 |
| 2146 | WVAPC | 860812 | 0.009<br>0.228 | 0.056<br>1.409 | 0.010<br>0.397 |
| 2174 | WVAPC | 860826 | -0.007<br>-0.174 | 0.111<br>2.771 | 0.018<br>0.726 |
| 2175 | WVAPC | 860902 | -0.007<br>-0.174 | 0.137<br>3.421 | 0.020<br>0.803 |
| 2190 | WVAPC | 860909 | 0.006<br>0.164 | 0.037<br>0.928 | 0.012<br>0.477 |
| 2244 | WVAPC | 860925 | 0.014<br>0.350 | 0.078<br>1.955 | 0.015<br>0.615 |
| 2245 | WVAPC | 861007 | 0.005<br>0.135 | 0.029<br>0.722 | 0.005<br>0.195 |
| 2272 | WVAPC | 860930 | 0.022<br>0.563 | 0.138<br>3.433 | 0.036<br>1.465 |
| 2322 | WVAPC | 861028 | 0.024<br>0.604 | 0.086<br>2.139 | 0.019<br>0.783 |
| 2341 | WVAPC | 861105 | 0.033<br>0.843 | 0.297<br>7.414 | 0.053<br>2.189 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2392 | WVAPC | 861118 | 0.640 | 0.522 | 0.054 |
|  |  |  | 16.370 | 13.021 | 2.214 |
| 2393 | WVAPC | 861125 | 0.007 | 0.035 | 0.009 |
|  |  |  | 0.183 | 0.865 | 0.384 |
| 2468 | WVAPC | 861202 | 0.003 | 0.048 | 0.008 |
|  |  |  | 0.066 | 1.207 | 0.348 |
| 2469 | WVAPC | 861216 | 0.020 | 0.185 | 0.030 |
|  |  |  | 0.504 | 4.613 | 1.243 |
| 2492 | WVAPC | 861230 | 0.063 | 0.079 | 0.015 |
|  |  |  | 1.617 | 1.983 | 0.634 |
| 2526 | WVAPC | 861223 | 0.006 | 0.045 | 0.008 |
|  |  |  | 0.164 | 1.132 | 0.313 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1594 | WVGRN | 860115 | 2 |  | 860122 |  | 860206 | 2 |  | 1586.10 | 13.2 |
| 1611 | WVGRN | 860122 | 1 |  | 860131 |  | 860214 |  |  | 1027.50 | 20.0 |
| 1612 | WVGRN | 860131 |  |  | 860205 |  | 860214 | 4 |  | 1147.50 | 24.7 |
| 1630 | WVGRN | 860205 | 2 |  | 860213 |  | 860221 | 2 |  | 858.60 | 32.3 |
| 1665 | WVGRN | 860218 |  |  | 860224 |  | 860310 | 5 |  | 888.20 | 37.4 |
| 1685 | WVGRN | 860213 | 1 |  | 860217 |  | 860314 |  |  | 478.70 | 15.6 |
| 1691 | WVGRN | 860224 | 2 |  | 860306 |  | 860319 | 4 |  | 1108.00 | 50.6 |
| 1741 | WVGRN | 860311 |  |  | 860319 |  | 860409 | 4 |  | 1945.70 | 13.3 |
| 1802 | WVGRN | 860409 |  |  | 860417 |  | 860501 | 4 |  | 418.90 | 45.5 |
| 1806 | WVGRN | 860417 |  |  | 860424 |  | 860505 | 3 |  | 478.80 | 29.6 |
| 1885 | WVGRN | 860513 |  |  | 860519 |  | 860606 |  |  | 1994.60 | 21.2 |
| 1886 | WVGRN | 860515 |  |  | 860528 |  | 860606 | 5 |  | 2154.20 | 15.1 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1594 | WVGRN | 860115 | 4.57 | 3 |  | 1.00 | 1.13 | 525.000 | 4.58 | 35.63 | 10.7 |
| 1611 | WVGRN | 860122 | 4.44 |  |  | 1.03 | 1.05 | 330.000 | 4.40 | 43.70 | 18.7 |
| 1612 | WVGRN | 860131 | 4.35 |  |  | 0.98 | 1.08 | 330.000 | 4.28 | 47.04 | 23.3 |
| 1630 | WVGRN | 860205 | 4.18 |  |  | 1.04 | 1.07 | 280.000 | 4.16 | 72.74 | 30.1 |
| 1665 | WVGRN | 860218 | 4.15 | 3 | 33 | 1.03 | 0.99 | 290.000 | 4.11 | 85.94 | 37.8 |
| 1685 | WVGRN | 860213 | 4.53 |  |  | 1.02 | 1.03 | 150.000 | 4.50 | 34.32 | 14.2 |
| 1691 | WVGRN | 860224 | 4.10 | 3 |  | 1.03 | 1.01 | 300.000 | 4.06 | 98.50 | 49.9 |
| 1741 | WVGRN | 860311 | 4.65 |  |  | 1.07 | 1.14 | 350.000 | 4.56 | 31.13 | 11.5 |
| 1802 | WVGRN | 860409 | 4.05 | 3 |  | 1.05 | 1.04 | 120.000 | 4.05 | 94.69 | 44.4 |
| 1806 | WVGRN | 860417 | 4.30 |  | 33 | 1.03 | 1.05 | 140.000 | 4.31 | 53.26 | 25.6 |
| 1885 | WVGRN | 860513 | 4.45 | 3 | 33 | 1.01 | 1.05 | 440.000 | 4.40 | 45.00 | 20.7 |
| 1886 | WVGRN | 860519 | 4.56 | 3 |  | 0.97 | 1.12 | 275.000 | 4.50 | 36.70 | 13.8 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1594 | WVGRN | 860115 | 0.004 | 0.033 | -0.010 | 0.015 | -0.046 | 0.752 | 0.928 | 0.064 | 0.023 |
| | | | 0.230 | 0.929 | -0.207 | 0.154 | -0.575 | 12.106 | 9.653 | 3.565 | 0.987 |
| 1611 | WVGRN | 860122 | 0.007 | 0.095 | -0.007 | -0.016 | -0.050 | 1.828 | 1.375 | 0.193 | 0.044 |
| | | | 0.358 | 2.688 | -0.160 | -0.169 | -0.630 | 29.433 | 14.304 | 10.691 | 1.927 |
| 1612 | WVGRN | 860131 | 0.007 | 0.203 | -0.007 | -0.016 | -0.050 | 1.228 | 2.247 | 0.205 | 0.116 |
| | | | 0.371 | 5.721 | -0.161 | -0.173 | -0.622 | 19.763 | 23.366 | 11.342 | 5.051 |
| 1630 | WVGRN | 860205 | 0.005 | 0.104 | -0.011 | -0.022 | -0.047 | 2.463 | 2.394 | 0.171 | 0.042 |
| | | | 0.277 | 2.940 | -0.246 | -0.235 | -0.587 | 39.657 | 24.899 | 9.465 | 1.840 |
| 1665 | WVGRN | 860218 | 0.011 | 0.112 | -0.014 | -0.055 | 0.062 | 2.598 | 3.180 | 0.304 | 0.051 |
| | | | 0.596 | 3.151 | -0.296 | -0.574 | 0.775 | 41.826 | 33.073 | 16.857 | 2.210 |
| 1685 | WVGRN | 860213 | 0.005 | 0.105 | -0.013 | -0.049 | -0.061 | 1.468 | 0.710 | 0.059 | 0.051 |
| | | | 0.254 | 2.954 | -0.283 | -0.518 | -0.761 | 23.632 | 7.389 | 3.246 | 2.225 |
| 1691 | WVGRN | 860224 | 0.021 | 0.190 | -0.012 | -0.043 | -0.064 | 4.707 | 4.897 | 1.206 | 0.064 |
| | | | 1.095 | 5.370 | -0.258 | -0.452 | -0.801 | 75.780 | 50.927 | 66.787 | 2.775 |
| 1741 | WVGRN | 860311 | 0.003 | 0.061 | -0.012 | -0.022 | -0.047 | 0.774 | 1.200 | 0.097 | 0.035 |
| | | | 0.151 | 1.716 | -0.258 | -0.235 | -0.585 | 12.469 | 12.476 | 5.365 | 1.505 |
| 1802 | WVGRN | 860409 | 0.025 | 0.226 | -0.014 | 0.015 | -0.007 | 3.986 | 3.941 | 0.537 | 0.070 |
| | | | 1.318 | 6.365 | -0.298 | 0.158 | -0.090 | 64.178 | 40.990 | 29.766 | 3.032 |
| 1806 | WVGRN | 860417 | 0.021 | 0.147 | -0.017 | 0.017 | -0.007 | 1.845 | 2.825 | 0.345 | 0.064 |
| | | | 1.123 | 4.144 | -0.359 | 0.180 | -0.084 | 29.707 | 29.380 | 19.103 | 2.794 |
| 1885 | WVGRN | 860513 | 0.009 | 0.095 | -0.011 | 0.050 | -0.004 | 1.259 | 2.393 | 0.414 | 0.063 |
| | | | 0.479 | 2.674 | -0.238 | 0.527 | -0.045 | 20.262 | 24.891 | 22.914 | 2.748 |
| 1886 | WVGRN | 860519 | 0.007 | 0.038 | -0.011 | -0.021 | -0.004 | 0.882 | 1.411 | 0.189 | 0.024 |
| | | | 0.352 | 1.063 | -0.231 | -0.218 | -0.046 | 14.197 | 14.670 | 10.448 | 1.025 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1594 | WVGRN | 860115 | 0.012 | 0.045 | -0.003 |
| | | | 0.295 | 1.133 | -0.113 |
| 1611 | WVGRN | 860122 | 0.013 | 0.122 | 0.011 |
| | | | 0.324 | 3.044 | 0.433 |
| 1612 | WVGRN | 860131 | 0.023 | 0.080 | 0.012 |
| | | | 0.587 | 2.000 | 0.489 |
| 1630 | WVGRN | 860205 | 0.012 | 0.163 | 0.007 |
| | | | 0.302 | 4.072 | 0.289 |
| 1665 | WVGRN | 860218 | 0.040 | 0.219 | 0.018 |
| | | | 1.025 | 5.471 | 0.729 |
| 1685 | WVGRN | 860213 | 0.012 | 0.061 | 0.008 |
| | | | 0.315 | 1.532 | 0.314 |
| 1691 | WVGRN | 860224 | 0.041 | 0.388 | 0.034 |
| | | | 1.050 | 9.681 | 1.402 |
| 1741 | WVGRN | 860311 | 0.010 | 0.034 | 0.007 |
| | | | 0.261 | 0.843 | 0.277 |
| 1802 | WVGRN | 860409 | 0.087 | 0.353 | 0.073 |
| | | | 2.235 | 8.803 | 2.987 |
| 1806 | WVGRN | 860417 | 0.110 | 0.272 | 0.055 |
| | | | 2.817 | 6.775 | 2.245 |
| 1885 | WVGRN | 860513 | 0.081 | 0.095 | 0.023 |
| | | | 2.076 | 2.371 | 0.941 |
| 1886 | WVGRN | 860519 | 0.031 | 0.044 | 0.008 |
| | | | 0.794 | 1.104 | 0.330 |

| ID | STN | BD | TYPE | BT | ED YRMODY | ET | DR YRMODY | EVENT # EVENTS | INCH | FWT gm | FCOND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1999 | WVGRN | 860623 | | | 860703 | | 860725 | 3 | | 7117.60 | 30.9 |
| 2025 | WVGRN | 860708 | | | 860716 | | 860804 | 4 | | 1097.00 | 30.9 |
| 2038 | WVGRN | 860716 | | | 860723 | | 860807 | 1 | | 1156.90 | 32.9 |
| 2081 | WVGRN | 860723 | | | 860730 | | 860820 | 1 | | 2573.70 | 35.7 |
| 2176 | WVGRN | 860826 | | | 860904 | | 860925 | 3 | | 2573.70 | 14.7 |
| 2177 | WVGRN | 860904 | | | 860908 | | 860925 | 1 | | 384.00 | 35.5 |
| 2243 | WVGRN | 860922 | | | 861001 | | 861027 | 4 | | 1406.20 | 14.5 |
| 2246 | WVGRN | 861007 | | | 861014 | | 861027 | 5 | | 1546.20 | 4.8 |
| 2273 | WVGRN | 861001 | | | 861007 | | 861031 | 3 | | 1546.00 | 13.1 |
| 2323 | WVGRN | 861028 | | | 861103 | | 861121 | | | 1077.10 | 4.9 |
| 2342 | WVGRN | 861103 | | | 861112 | | 861125 | | | 4061.90 | 28.4 |
| 2394 | WVGRN | 861117 | | | 861124 | | 861211 | | | 868.10 | 23.7 |
| 2395 | WVGRN | 861124 | | | 861202 | | 861211 | | | 1297.10 | 14.7 |
| 2470 | WVGRN | 861202 | | | 861209 | | 870109 | | | 1406.90 | 8.2 |
| 2471 | WVGRN | 861215 | | | 861222 | | 870109 | | | 804.20 | 41.7 |
| 2527 | WVGRN | 861222 | | | 861229 | | 870122 | | | 2554.90 | 3.3 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1999 | WVGRN | 860623 | 4.24 |  | 34 | 1.04 | 1.02 | 550.0 | 4.20 | 73.5 | 30.3 |
| 2025 | WVGRN | 860708 | 4.24 |  | 33 | 1.08 | 1.00 | 290.0 | 4.21 | 68.8 | 30.6 |
| 2038 | WVGRN | 860716 | 4.22 |  |  | 1.03 | 1.02 | 250.0 | 4.18 | 74.8 | 32.7 |
| 2081 | WVGRN | 860723 | 4.13 |  |  | 1.02 | 1.10 | 390.0 | 4.10 | 88.5 | 34.7 |
| 2176 | WVGRN | 860826 | 4.60 | 3 | 34 | 1.05 | 1.20 | 250.0 | 4.53 | 33.9 | 12.7 |
| 2177 | WVGRN | 860904 | 4.20 |  |  | 1.06 | 1.05 | 140.0 | 4.12 | 84.4 | 34.2 |
| 2243 | WVGRN | 860922 | 4.56 |  |  | 1.04 | 1.15 | 300.0 | 4.56 | 33.2 | 12.3 |
| 2246 | WVGRN | 861007 | 5.18 | 3 |  | 0.87 | 1.44 | 550.0 | 5.05 | 15.1 | 3.1 |
| 2273 | WVGRN | 861001 | 4.69 |  |  | 1.09 | 1.16 | 350.0 | 4.66 | 27.4 | 10.5 |
| 2323 | WVGRN | 861028 | 5.80 |  |  | 0.98 | 1.52 | 300.0 | 5.11 | 14.8 | 3.3 |
| 2342 | WVGRN | 861103 | 4.30 |  |  | 1.06 | 1.06 | 375.0 | 4.22 | 65.6 | 27.0 |
| 2394 | WVGRN | 861117 | 4.25 | 3 | 313334 | 1.06 | 1.06 | 200.0 | 4.28 | 58.6 | 24.3 |
| 2395 | WVGRN | 861124 | 4.52 |  |  | 1.05 | 1.18 | 300.0 | 4.49 | 37.2 | 12.9 |
| 2470 | WVGRN | 861202 | 4.89 |  |  | 1.05 | 1.23 | 300.0 | 4.76 | 21.1 | 6.6 |
| 2471 | WVGRN | 861215 | 4.01 |  |  | 1.09 | 1.05 | 260.0 | 4.03 | 99.6 | 41.8 |
| 2527 | WVGRN | 861222 | 5.30 |  | 33 | 0.86 | 1.37 | 450.0 | 5.19 | 10.9 | 2.2 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1999 | WVGRN | 860623 | -0.004 | 0.090 | -0.002 | 0.042 | -0.014 | 1.363 | 3.187 | 0.320 | 0.025 |
| | | | -0.190 | 2.541 | -0.045 | 0.445 | -0.180 | 21.947 | 33.145 | 17.743 | 1.074 |
| 2025 | WVGRN | 860708 | 0.021 | 0.155 | -0.008 | 0.041 | -0.005 | 2.043 | 2.756 | 0.200 | 0.066 |
| | | | 1.097 | 4.377 | -0.175 | 0.435 | -0.064 | 32.896 | 28.661 | 11.067 | 2.885 |
| 2038 | WVGRN | 860716 | 0.020 | 0.095 | -0.011 | 0.043 | -0.004 | 1.627 | 3.484 | 0.427 | 0.035 |
| | | | 1.066 | 2.666 | -0.240 | 0.453 | -0.047 | 26.192 | 36.238 | 23.672 | 1.501 |
| 2081 | WVGRN | 860723 | 0.025 | 0.095 | -0.004 | -0.027 | -0.022 | 1.291 | 4.139 | 0.394 | 0.010 |
| | | | 1.330 | 2.670 | -0.082 | -0.280 | -0.276 | 20.792 | 43.047 | 21.816 | 0.418 |
| 2176 | WVGRN | 860826 | 0.008 | 0.076 | -0.013 | 0.030 | -0.025 | 0.951 | 1.491 | 0.164 | 0.044 |
| | | | 0.428 | 2.146 | -0.274 | 0.313 | -0.316 | 15.310 | 15.506 | 9.085 | 1.894 |
| 2177 | WVGRN | 860904 | 0.022 | 0.130 | -0.013 | 0.028 | -0.025 | 2.137 | 3.182 | 0.243 | 0.091 |
| | | | 1.179 | 3.678 | -0.280 | 0.299 | -0.315 | 34.401 | 33.089 | 13.487 | 3.972 |
| 2243 | WVGRN | 860922 | 0.014 | 0.094 | 0.000 | 0.030 | 0.000 | 0.821 | 1.387 | 0.101 | 0.043 |
| | | | 0.722 | 2.660 | 0.000 | 0.314 | 0.000 | 13.217 | 14.421 | 5.580 | 1.865 |
| 2246 | WVGRN | 861007 | 0.005 | 0.026 | 0.000 | 0.047 | 0.000 | 0.296 | 0.299 | 0.037 | 0.012 |
| | | | 0.280 | 0.723 | 0.000 | 0.497 | 0.000 | 4.761 | 3.107 | 2.023 | 0.541 |
| 2273 | WVGRN | 861001 | 0.010 | 0.171 | -0.005 | 0.074 | -0.021 | 0.706 | 1.239 | 0.124 | 0.120 |
| | | | 0.503 | 4.821 | -0.101 | 0.781 | -0.262 | 11.362 | 12.890 | 6.876 | 5.226 |
| 2323 | WVGRN | 861028 | -0.001 | 0.194 | -0.011 | 0.033 | -0.007 | 0.339 | 0.400 | 0.026 | 0.111 |
| | | | -0.065 | 5.466 | -0.229 | 0.348 | -0.088 | 5.455 | 4.159 | 1.418 | 4.817 |
| 2342 | WVGRN | 861103 | -0.003 | 0.095 | 0.021 | 0.065 | -0.014 | 1.473 | 2.608 | 0.252 | 0.042 |
| | | | -0.146 | 2.689 | 0.452 | 0.686 | -0.180 | 23.709 | 27.123 | 13.961 | 1.822 |
| 2394 | WVGRN | 861117 | 0.015 | 0.093 | 0.015 | 0.056 | -0.031 | 1.427 | 2.469 | 0.276 | 0.039 |
| | | | 0.802 | 2.637 | 0.331 | 0.592 | -0.394 | 22.977 | 25.676 | 15.301 | 1.709 |
| 2395 | WVGRN | 861124 | 0.007 | 0.131 | 0.014 | 0.060 | -0.031 | 0.707 | 1.279 | 0.095 | 0.067 |
| | | | 0.379 | 3.708 | 0.313 | 0.628 | -0.394 | 11.389 | 13.303 | 5.252 | 2.915 |
| 2470 | WVGRN | 861202 | -0.007 | 0.057 | -0.008 | -0.046 | -0.011 | 0.514 | 0.674 | 0.047 | 0.024 |
| | | | -0.376 | 1.596 | -0.181 | -0.481 | -0.132 | 8.276 | 7.006 | 2.586 | 1.057 |
| 2471 | WVGRN | 861215 | -0.006 | 0.087 | -0.008 | -0.050 | -0.011 | 4.005 | 3.005 | 0.365 | 0.048 |
| | | | -0.324 | 2.461 | -0.167 | -0.521 | -0.139 | 64.488 | 31.251 | 20.221 | 2.080 |
| 2527 | WVGRN | 861222 | -0.003 | 0.016 | -0.014 | -0.028 | -0.008 | 0.130 | 0.255 | 0.029 | 0.015 |
| | | | -0.133 | 0.453 | -0.310 | -0.295 | -0.098 | 2.087 | 2.656 | 1.628 | 0.655 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1999 | WVGRN | 860623 | 0.037 | 0.103 | 0.017 |
| | | | 0.955 | 2.575 | 0.691 |
| 2025 | WVGRN | 860708 | 0.081 | 0.205 | 0.033 |
| | | | 2.071 | 5.104 | 1.349 |
| 2038 | WVGRN | 860716 | 0.029 | 0.150 | 0.021 |
| | | | 0.740 | 3.741 | 0.860 |
| 2081 | WVGRN | 860723 | 0.023 | 0.121 | 0.011 |
| | | | 0.595 | 3.008 | 0.451 |
| 2176 | WVGRN | 860826 | 0.035 | 0.103 | 0.016 |
| | | | 0.885 | 2.566 | 0.650 |
| 2177 | WVGRN | 860904 | -0.007 | 0.126 | 0.020 |
| | | | -0.174 | 3.145 | 0.803 |
| 2243 | WVGRN | 860922 | 0.104 | 0.096 | 0.028 |
| | | | 2.659 | 2.406 | 1.166 |
| 2246 | WVGRN | 861007 | 0.027 | 0.048 | 0.011 |
| | | | 0.685 | 1.202 | 0.459 |
| 2273 | WVGRN | 861001 | 0.045 | 0.089 | 0.022 |
| | | | 1.163 | 2.231 | 0.889 |
| 2323 | WVGRN | 861028 | 0.010 | 0.102 | 0.017 |
| | | | 0.260 | 2.544 | 0.718 |
| 2342 | WVGRN | 861103 | 0.034 | 0.046 | -0.001 |
| | | | 0.862 | 1.150 | -0.030 |
| 2394 | WVGRN | 861117 | 0.040 | 0.087 | 0.013 |
| | | | 1.021 | 2.163 | 0.524 |
| 2395 | WVGRN | 861124 | 0.010 | 0.017 | 0.010 |
| | | | 0.245 | 0.413 | 0.400 |
| 2470 | WVGRN | 861202 | 0.015 | 0.021 | 0.006 |
| | | | 0.395 | 0.530 | 0.250 |
| 2471 | WVGRN | 861215 | 0.035 | 0.046 | 0.008 |
| | | | 0.889 | 1.150 | 0.344 |
| 2527 | WVGRN | 861222 | 0.009 | -0.022 | 0.002 |
| | | | 0.225 | -0.561 | 0.092 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1595 | WPNEW | 860115 |  | 1200 | 860123 | 1200 | 860206 | 3 |  | 1406.80 | 20.1 |
| 1613 | WPNEW | 860123 | 1 | 1200 | 860130 | 1200 | 860214 |  |  | 440.50 | 40.3 |
| 1631 | WPNEW | 860130 | 2 | 1200 | 860206 | 1200 | 860221 | 4 |  | 1955.70 | 41.8 |
| 1657 | WPNEW | 860219 | 2 | 1200 | 860226 | 1200 | 860304 | 1 |  | 962.60 | 74.5 |
| 1661 | WPNEW | 860213 | 2 | 1200 | 860219 | 1200 | 860305 | 3 |  | 1052.70 | 58.4 |
| 1699 | WPNEW | 860226 | 2 | 1200 | 860306 | 1200 | 860321 |  |  | 640.20 | 67.5 |
| 1725 | WPNEW | 860313 |  | 1200 | 860320 | 1200 | 860402 | 4 |  | 329.10 | 42.5 |
| 1765 | WPNEW | 860326 |  | 1200 | 860403 | 1200 | 860416 | 1 |  | 224.40 | 67.4 |
| 1786 | WPNEW | 860410 | 2 | 1200 | 860416 | 1200 | 860429 | 4 |  | 479.00 | 74.6 |
| 1803 | WPNEW | 860403 |  | 1200 | 860410 | 1200 | 860501 |  |  | 820.40 | 71.3 |
| 1807 | WPNEW | 860416 | 2 | 1200 | 860423 | 1200 | 860505 | 5 |  | 1655.10 | 50.5 |
| 1840 | WPNEW | 860430 |  | 1200 | 860507 | 1200 | 860527 | 2 |  | 977.10 | 52.2 |
| 1856 | WPNEW | 860515 |  | 1200 | 860521 | 1200 | 860528 | 4 |  | 433.00 | 70.2 |
| 1887 | WPNEW | 860507 |  | 1200 | 860515 | 1200 | 860606 | 3 |  | 289.20 | 84.5 |

| ID | STN | DD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN ueqiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1595 | WPWEB | 860115 | 4.22 | | | 1.05 | 1.00 | 425.000 | 4.23 | 63.40 | 27.0 |
| 1613 | WPWEB | 860123 | 4.21 | 3 | 99 | 9999.00 | 9999.00 | 90.000 | 4.23 | | |
| 1631 | WPWEB | 860130 | 4.05 | | | 1.02 | 1.05 | 450.000 | 4.01 | 101.47 | 43.0 |
| 1657 | WPWEB | 860219 | 3.80 | | | 1.05 | 1.01 | 275.000 | 3.81 | 163.90 | 73.5 |
| 1661 | WPWEB | 860213 | 3.92 | | | 1.06 | 0.99 | 200.000 | 3.90 | 134.52 | 58.5 |
| 1699 | WPWEB | 860226 | 3.85 | 3 | 3299 | 9999.00 | 9999.00 | 250.000 | 3.83 | | |
| 1725 | WPWEB | 860313 | 4.12 | 2 | | 1.12 | 0.97 | 80.000 | 4.11 | 89.42 | 42.2 |
| 1765 | WPWEB | 860326 | 3.30 | 40 | | 1.03 | 1.01 | 40.000 | 3.32 | | 67.8 |
| 1786 | WPWEB | 860410 | 3.92 | | | 1.05 | 0.98 | 130.000 | 3.90 | 129.27 | 75.9 |
| 1803 | WPWEB | 860403 | 3.94 | 3 | | 1.06 | 1.02 | 300.000 | 3.89 | 137.06 | 72.5 |
| 1807 | WPWEB | 860416 | 3.98 | | 34 | 1.06 | 1.02 | 640.000 | 3.96 | 115.80 | 51.2 |
| 1848 | WPWEB | 860420 | 4.01 | | | 1.00 | 0.99 | 640.000 | 4.02 | 109.90 | 53.4 |
| 1856 | WPWEB | 860515 | 3.83 | 3 | | 1.11 | 0.98 | 120.000 | 3.79 | 170.20 | 79.0 |
| 1887 | WPWEB | 860507 | 3.79 | 3 | | 1.36 | 0.99 | 30.000 | 3.75 | | 86.6 |

| ID | STN | DD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1595 | WPNEB | 860115 | 0.038<br>2.006 | 0.236<br>6.654 | -0.009<br>-0.202 | -0.010<br>-0.103 | -0.047<br>-0.589 | 1.184<br>19.065 | 2.625<br>27.299 | 0.175<br>9.674 | 0.060<br>2.621 |
| 1613 | WPNEB | 860123 | | | | | | | | | |
| 1631 | WPNEB | 860130 | 0.057<br>2.984 | 0.393<br>11.093 | -0.012<br>-0.251 | -0.022<br>-0.233 | 0.138<br>1.730 | 2.026<br>32.622 | 3.853<br>40.068 | 0.302<br>16.735 | 0.083<br>3.610 |
| 1657 | WPNEB | 860219 | 0.141<br>7.430 | 1.105<br>31.160 | -0.013<br>-0.274 | -0.050<br>-0.530 | 0.108<br>1.353 | 4.527<br>72.886 | 5.416<br>56.322 | 0.688<br>38.114 | 0.066<br>2.889 |
| 1661 | WPNEB | 860213 | 0.063<br>3.329 | 0.587<br>16.553 | -0.013<br>-0.287 | -0.053<br>-0.557 | 0.065<br>0.809 | 2.503<br>40.302 | 5.173<br>53.797 | 0.291<br>16.096 | 0.068<br>2.956 |
| 1699 | WPNEB | 860226 | | | | | | | | | |
| 1725 | WPNEB | 860313 | 0.049<br>2.587 | 0.332<br>9.370 | -0.013<br>-0.286 | -0.042<br>-0.443 | 0.089<br>1.112 | 2.038<br>32.806 | 4.594<br>47.774 | 0.274<br>15.162 | 0.141<br>6.143 |
| 1765 | WPNEB | 860326 | 0.186<br>9.783 | 1.798<br>50.707 | -0.033<br>-0.721 | -0.033<br>-0.347 | -0.039<br>-0.485 | 3.142<br>50.587 | 6.695<br>69.626 | 0.896<br>49.635 | 0.498<br>21.670 |
| 1786 | WPNEB | 860410 | 0.098<br>5.158 | 2.082<br>58.713 | -0.007<br>-0.161 | -0.006<br>-0.062 | 0.037<br>0.467 | 5.427<br>87.380 | 6.444<br>67.023 | 1.394<br>77.202 | 0.094<br>4.105 |
| 1803 | WPNEB | 860403 | 0.060<br>3.157 | 0.515<br>14.523 | -0.014<br>-0.304 | -0.014<br>-0.145 | -0.007<br>-0.089 | 4.959<br>79.841 | 8.310<br>86.426 | 1.344<br>74.445 | 0.114<br>4.966 |
| 1807 | WPNEB | 860416 | 0.053<br>2.812 | 0.312<br>8.808 | -0.017<br>-0.360 | 0.026<br>0.276 | 0.065<br>0.812 | 2.928<br>47.134 | 4.505<br>46.848 | 0.400<br>22.186 | 0.030<br>1.291 |
| 1848 | WPNEB | 860430 | 0.048<br>2.534 | 0.450<br>12.676 | -0.010<br>-0.221 | 0.034<br>0.356 | -0.020<br>-0.246 | 3.348<br>53.904 | 5.845<br>60.783 | 0.751<br>41.611 | 0.224<br>9.755 |
| 1856 | WPNEB | 860515 | 0.111<br>5.851 | 0.827<br>23.315 | -0.011<br>-0.249 | 0.031<br>0.329 | 0.055<br>0.688 | 3.082<br>49.618 | 7.455<br>77.536 | 0.390<br>21.580 | 0.074<br>3.239 |
| 1887 | WPNEB | 860507 | 0.098<br>5.173 | 0.214<br>6.027 | -0.010<br>-0.225 | -0.451<br>-4.739 | -0.004<br>-0.046 | 4.024<br>64.781 | 10.409<br>108.250 | -0.029<br>-1.604 | 0.449<br>19.530 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1595 | WVNEW | 860115 | 0.015<br>0.388 | 0.116<br>2.889 | 0.016<br>0.662 |
| 1613 | WVNEW | 860123 | | | |
| 1631 | WVNEW | 860130 | 0.017<br>0.442 | 0.131<br>3.269 | 0.019<br>0.802 |
| 1657 | WVNEW | 860219 | 0.044<br>1.134 | 0.313<br>7.811 | 0.041<br>1.672 |
| 1661 | WVNEW | 860213 | 0.035<br>0.906 | 0.230<br>5.727 | 0.030<br>1.228 |
| 1699 | WVNEW | 860226 | | | |
| 1725 | WVNEW | 860313 | 0.098<br>2.499 | 0.424<br>10.586 | 0.057<br>2.336 |
| 1765 | WVNEW | 860326 | 0.094<br>2.405 | 0.770<br>19.205 | 0.147<br>6.056 |
| 1786 | WVNEW | 860410 | 0.141<br>3.600 | 0.819<br>20.446 | 0.132<br>5.447 |
| 1803 | WVNEW | 860403 | 0.084<br>2.153 | 0.739<br>18.437 | 0.109<br>4.481 |
| 1807 | WVNEW | 860416 | 0.045<br>1.158 | 0.198<br>4.936 | 0.025<br>1.032 |
| 1848 | WVNEW | 860430 | 0.067<br>1.712 | 0.455<br>11.340 | 0.086<br>3.551 |
| 1856 | WVNEW | 860515 | 0.060<br>1.544 | 0.398<br>9.918 | 0.058<br>2.384 |
| 1887 | WVNEW | 860507 | 0.107<br>2.732 | 0.215<br>5.352 | 0.066<br>2.724 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1923 | WVNEW | 860521 | | 1200 | 860528 | 1200 | 860617 | | | 787.50 | 31.3 |
| 1939 | WVNEW | 860604 | | 1200 | 860611 | 1200 | 860627 | 4 | | 3464.80 | 73.0 |
| 1962 | WVNEW | 860625 | | 1200 | 860702 | 1200 | 860709 | 4 | | 3245.50 | 45.6 |
| 2000 | WVNEW | 860702 | | 1200 | 860710 | 1200 | 860725 | 2 | | 2980.50 | 56.0 |
| 2039 | WVNEW | 860710 | | 1200 | 860716 | 1200 | 860807 | 2 | | 1794.70 | 36.7 |
| 2040 | WVNEW | 860716 | | 1200 | 860723 | 1200 | 860807 | 2 | | 733.00 | 37.9 |
| 2060 | WVNEW | 860723 | | 1200 | 860730 | 1200 | 860815 | | | 2662.20 | 32.1 |
| 2077 | WVNEW | 860806 | | 1200 | 860813 | 1200 | 860819 | 1 | | 1675.10 | 61.8 |
| 2158 | WVNEW | 860903 | | 1200 | 860910 | 1200 | 860924 | | | 847.70 | 74.5 |
| 2178 | WVNEW | 860820 | | 1200 | 860828 | 1200 | 860925 | 2 | | 746.00 | 62.0 |
| 2179 | WVNEW | 860910 | | 1200 | 860916 | 1200 | 860925 | 1 | | 234.60 | 33.4 |
| 2205 | WVNEW | 860916 | | 1200 | 860925 | 1200 | 861007 | 2 | | 2081.50 | 45.6 |
| 2216 | WVNEW | 860925 | | 1200 | 861003 | 1200 | 861015 | 6 | | 2609.00 | 40.7 |
| 2259 | WVNEW | 861003 | | 1200 | 861008 | 1200 | 861029 | 2 | | 1145.70 | 28.9 |
| 2303 | WVNEW | 861029 | | 1200 | 861106 | 1200 | 861118 | | | 1290.10 | 38.2 |
| 2350 | WVNEW | 861106 | | 1200 | 861112 | 1200 | 861129 | | | 1451.00 | 28. |
| 2371 | WVNEW | 861112 | | 1200 | 861121 | 1200 | 861204 | | | 762.90 | 54.1 |

| ID | STN | BD | TYPE | BT | ED | ET | DR | EVENT | INCH | FWT | FCOND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | YRMODY | | YRMODY | # EVENTS | | gm | umho/cm |
| 2396 | WVNEW | 861121 | | 1200 | 861126 | 1200 | 861211 | | | 1406.20 | 32.1 |
| 2405 | WVNEW | 861126 | | 1200 | 861203 | 1200 | 861210 | | | 3720.00 | 17.3 |
| 2442 | WVNEW | 861203 | | 1200 | 861210 | 1200 | 870105 | | | 957.40 | 46.4 |
| 2493 | WVNEW | 861230 | 2 | 1200 | 870106 | 1200 | 870115 | | | 760.10 | 10.7 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1923 | WVNEW | 860521 | 4.25 |  |  | 1.06 | 1.01 | 280.0 | 4.19 | 71.4 | 30.5 |
| 1939 | WVNEW | 860604 | 3.83 | 3 |  | 1.09 | 0.97 | 475.0 | 3.81 | 170.1 | 76.1 |
| 1962 | WVNEW | 860625 | 4.01 |  |  | 1.06 | 1.04 | 375.0 | 3.97 | 115.9 | 47.5 |
| 2000 | WVNEW | 860702 | 3.90 |  |  | 1.13 | 0.97 | 380.0 | 3.92 | 137.8 | 58.0 |
| 2039 | WVNEW | 860710 | 4.00 |  |  | 1.09 | 1.01 | 330.0 | 4.06 | 96.3 | 40.1 |
| 2040 | WVNEW | 860716 | 4.10 |  |  | 1.05 | 1.01 | 180.0 | 4.16 | 78.6 | 36.9 |
| 2060 | WVNEW | 860723 | 3.90 |  |  | 1.04 | 1.04 | 100.0 | 4.18 | 73.5 | 29.9 |
| 2077 | WVNEW | 860806 | 3.90 |  |  | 1.06 | 1.06 | 370.0 | 3.88 | 144.2 | 58.0 |
| 2158 | WVNEW | 860903 | 3.90 |  |  | 1.13 | 1.00 | 200.0 | 3.84 | 156.1 | 74.4 |
| 2178 | WVNEW | 860820 | 3.90 |  |  | 1.06 | 1.03 | 200.0 | 3.89 | 138.9 | 60.2 |
| 2179 | WVNEW | 860910 | 4.19 | 3 |  | 1.11 | 1.05 | 50.0 | 4.21 |  | 32.6 |
| 2205 | WVNEW | 860916 | 4.05 |  |  | 1.06 | 1.04 | 450.0 | 4.03 | 101.2 | 42.0 |
| 2216 | WVNEW | 860925 | 4.10 | 3 |  | 1.05 | 1.08 | 475.0 | 4.07 | 93.6 | 36.0 |
| 2259 | WVNEW | 861003 | 4.30 | 3 |  | 1.08 | 1.00 | 275.0 | 4.25 | 63.1 | 25.7 |
| 2303 | WVNEW | 861029 | 4.11 |  |  | 1.04 | 1.01 | 225.0 | 4.10 | 86.9 | 35.9 |
| 2350 | WVNEW | 861106 | 4.25 | 3 |  | 1.09 | 1.08 | 240.0 | 4.21 | 66.8 | 26.1 |
| 2371 | WVNEW | 861112 | 4.00 | 3 |  | 1.06 | 0.99 | 170.0 | 3.92 | 132.6 | 56.5 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2396 | WVNEW | 861121 | 4.24 |  | 33 | 1.11 | 1.04 | 525.0 | 4.17 | 76.7 | 29.6 |
| 2405 | WVNEW | 861126 | 4.44 |  |  | 1.15 | 1.08 | 550.0 | 4.44 | 44.9 | 15.5 |
| 2442 | WVNEW | 861203 | 4.09 |  |  | 1.15 | 1.03 | 250.0 | 3.99 | 110.3 | 47.4 |
| 2493 | WVNEW | 861230 | 4.49 | 3 |  | 1.13 | 1.05 | 110.0 | 4.46 | 41.2 | 16.8 |

| ID | STN | BO | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1923 | WVNEW | 860521 | 0.040 | 0.335 | -0.012 | -0.020 | -0.006 | 0.723 | 3.224 | 0.235 | 0.027 |
| | | | 2.120 | 9.457 | -0.262 | -0.205 | -0.080 | 11.643 | 33.532 | 12.993 | 1.161 |
| 1939 | WVNEW | 860604 | 0.067 | 0.471 | -0.009 | -0.020 | -0.020 | 2.290 | 8.078 | 0.445 | 0.041 |
| | | | 3.506 | 13.276 | -0.197 | -0.206 | -0.252 | 36.876 | 84.007 | 24.649 | 1.777 |
| 62 | WVNEW | 860625 | 0.036 | 0.336 | -0.007 | 0.037 | -0.004 | 1.644 | 4.746 | 0.244 | 0.027 |
| | | | 1.870 | 9.465 | -0.147 | 0.391 | -0.046 | 26.472 | 49.355 | 13.526 | 1.161 |
| 2000 | WVNEW | 860702 | 0.085 | 0.853 | -0.002 | 0.176 | -0.014 | 1.425 | 5.326 | 0.275 | 0.046 |
| | | | 4.462 | 24.057 | -0.044 | 1.850 | -0.176 | 22.940 | 55.392 | 15.259 | 2.020 |
| 2039 | WVNEW | 860710 | 0.026 | 0.173 | -0.011 | 0.034 | -0.004 | 2.040 | 3.747 | 0.168 | 0.056 |
| | | | 1.373 | 4.892 | -0.232 | 0.361 | -0.048 | 32.839 | 38.969 | 9.284 | 2.426 |
| 2040 | WVNEW | 860716 | 0.041 | 0.280 | -0.010 | 0.035 | -0.004 | 1.938 | 4.214 | 0.379 | 0.104 |
| | | | 2.135 | 7.906 | -0.218 | 0.369 | -0.050 | 31.196 | 43.823 | 21.003 | 4.529 |
| 2060 | WVNEW | 860723 | 0.022 | 0.132 | -0.009 | -0.060 | -0.014 | 1.048 | 3.221 | 0.226 | 0.017 |
| | | | 1.158 | 3.727 | -0.203 | -0.625 | -0.172 | 16.872 | 33.498 | 12.543 | 0.746 |
| 2077 | WVNEW | 860806 | 0.062 | 0.386 | -0.006 | -0.041 | -0.020 | 1.903 | 6.401 | 0.283 | 0.020 |
| | | | 3.283 | 10.891 | -0.125 | -0.427 | -0.250 | 30.636 | 66.571 | 15.705 | 0.880 |
| 2158 | WVNEW | 860903 | 0.116 | 1.223 | -0.008 | 0.029 | 0.105 | 3.515 | 7.365 | 0.847 | 0.122 |
| | | | 6.105 | 34.492 | -0.170 | 0.300 | 1.318 | 56.586 | 76.592 | 46.938 | 5.313 |
| 2178 | WVNEW | 860820 | 0.055 | 0.465 | -0.013 | 0.024 | -0.025 | 1.783 | 6.673 | 0.474 | 0.037 |
| | | | 2.905 | 13.122 | -0.285 | 0.256 | -0.314 | 28.702 | 69.395 | 26.260 | 1.613 |
| 2179 | WVNEW | 860910 | 0.070 | 0.580 | -0.013 | 0.041 | -0.025 | 1.662 | 3.684 | 0.361 | 0.121 |
| | | | 3.682 | 16.343 | -0.290 | 0.432 | -0.312 | 26.754 | 38.308 | 20.024 | 5.256 |
| 2205 | WVNEW | 860916 | 0.048 | 0.446 | -0.025 | 0.023 | -0.012 | 1.697 | 3.958 | 0.305 | 0.024 |
| | | | 2.537 | 12.568 | -0.541 | 0.236 | -0.146 | 27.326 | 41.162 | 16.918 | 1.039 |
| 2216 | WVNEW | 860925 | 0.028 | 0.242 | 0.000 | 0.023 | 0.000 | 1.361 | 3.745 | 0.145 | 0.070 |
| | | | 1.458 | 6.820 | 0.000 | 0.239 | 0.000 | 21.909 | 38.944 | 8.027 | 3.060 |
| 2259 | WVNEW | 861003 | 0.036 | 0.350 | 0.000 | 0.025 | 0.000 | 1.342 | 2.583 | 0.328 | 0.038 |
| | | | 1.882 | 9.868 | 0.000 | 0.264 | 0.000 | 21.601 | 26.860 | 18.175 | 1.636 |
| 2303 | WVNEW | 861029 | 0.062 | 0.770 | -0.020 | -0.025 | -0.061 | 1.547 | 2.407 | 0.165 | 0.011 |
| | | | 3.282 | 21.705 | -0.432 | -0.263 | -0.763 | 24.909 | 25.032 | 9.113 | 0.498 |
| 2350 | WVNEW | 861106 | 0.033 | 0.220 | 0.021 | 0.064 | 0.024 | 0.990 | 2.541 | 0.080 | 0.022 |
| | | | 1.722 | 6.218 | 0.455 | 0.670 | 0.305 | 15.944 | 26.428 | 4.429 | 0.966 |
| 2371 | WVNEW | 861112 | 0.068 | 0.587 | 0.017 | 0.021 | 0.088 | 2.878 | 4.499 | 0.348 | 0.048 |
| | | | 3.591 | 16.550 | 0.365 | 0.219 | 1.105 | 46.330 | 46.787 | 19.283 | 2.072 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2396 | WVNEW | 861121 | 0.026 | 0.222 | 0.006 | 0.018 | 0.063 | 0.394 | 3.461 | 0.026 | 0.038 |
| | | | 1.385 | 6.273 | 0.137 | 0.191 | 0.794 | 6.340 | 36.000 | 1.419 | 1.665 |
| 2405 | WVNEW | 861126 | -0.004 | 0.156 | -0.005 | 0.069 | 0.118 | 0.661 | 1.505 | 0.047 | 0.037 |
| | | | -0.218 | 4.411 | -0.104 | 0.719 | 1.481 | 10.638 | 15.656 | 2.610 | 1.616 |
| 2442 | WVNEW | 861203 | 0.107 | 0.644 | -0.010 | 0.090 | 0.210 | 2.028 | 4.352 | 0.161 | 0.093 |
| | | | 5.646 | 18.151 | -0.220 | 0.946 | 2.633 | 32.648 | 45.260 | 8.916 | 4.025 |
| 2493 | WVNEW | 861230 | -0.004 | 0.653 | -0.008 | 0.015 | -0.014 | 1.479 | 0.812 | 0.166 | 0.093 |
| | | | -0.234 | 18.412 | -0.166 | 0.161 | -0.177 | 23.816 | 8.447 | 9.189 | 4.057 |

| ID | STN | BD | K | CA | MG |
|---|---|---|---|---|---|
| | | | ug/ml | ug/ml | ug/ml |
| | | | umoles/l | umoles/l | umoles/l |
| 1923 | WVNEW | 860521 | 0.014 | 0.106 | 0.015 |
| | | | 0.350 | 2.636 | 0.635 |
| 1939 | WVNEW | 860604 | 0.032 | 0.364 | 0.065 |
| | | | 0.831 | 9.070 | 2.660 |
| 1962 | WVNEW | 860625 | 0.050 | 0.126 | 0.022 |
| | | | 1.273 | 3.131 | 0.901 |
| 2000 | WVNEW | 860702 | 0.013 | 0.184 | 0.030 |
| | | | 0.328 | 4.586 | 1.222 |
| 2039 | WVNEW | 860710 | 0.020 | 0.146 | 0.029 |
| | | | 0.499 | 3.649 | 1.175 |
| 2040 | WVNEW | 860716 | 0.031 | 0.462 | 0.075 |
| | | | 0.805 | 11.515 | 3.100 |
| 2060 | WVNEW | 860723 | 0.011 | 0.100 | 0.017 |
| | | | 0.275 | 2.506 | 0.704 |
| 2077 | WVNEW | 860806 | 0.023 | 0.318 | 0.046 |
| | | | 0.578 | 7.936 | 1.884 |
| 2158 | WVNEW | 860903 | 0.082 | 0.398 | 0.076 |
| | | | 2.102 | 9.929 | 3.114 |
| 2178 | WVNEW | 860820 | 0.025 | 0.272 | 0.044 |
| | | | 0.645 | 6.787 | 1.792 |
| 2179 | WVNEW | 860910 | 0.099 | 0.380 | 0.058 |
| | | | 2.523 | 9.483 | 2.383 |
| 2205 | WVNEW | 860916 | 0.019 | 0.110 | 0.018 |
| | | | 0.497 | 2.746 | 0.736 |
| 2216 | WVNEW | 860925 | 0.021 | 0.124 | 0.015 |
| | | | 0.539 | 3.086 | 0.637 |
| 2259 | WVNEW | 861003 | 0.027 | 0.073 | 0.016 |
| | | | 0.701 | 1.820 | 0.669 |
| 2303 | WVNEW | 861029 | 0.013 | 0.120 | 0.017 |
| | | | 0.320 | 2.984 | 0.699 |
| 2350 | WVNEW | 861106 | 0.018 | 0.098 | 0.014 |
| | | | 0.467 | 2.439 | 0.593 |
| 2371 | WVNEW | 861112 | 0.070 | 0.179 | 0.025 |
| | | | 1.785 | 4.477 | 1.015 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2396 | WVNEW | 861121 | 0.020 | 0.111 | 0.032 |
| | | | 0.520 | 2.767 | 1.333 |
| 2405 | WVNEW | 861126 | 0.020 | 0.043 | 0.009 |
| | | | 0.523 | 1.081 | 0.377 |
| 2442 | WVNEW | 861203 | 0.169 | 0.207 | 0.050 |
| | | | 4.332 | 5.173 | 2.063 |
| 2493 | WVNEW | 861230 | 0.084 | 0.044 | 0.010 |
| | | | 2.159 | 1.103 | 0.405 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1614 | WVWAR | 860122 | 2 | 1200 | 860130 | 1200 | 860214 | 4 | | 500.00 | 41.5 |
| 1632 | WVWAR | 860130 | 2 | 1200 | 860206 | 1200 | 860221 | 4 | | 2923.60 | 30.2 |
| 1888 | WVWAR | 860508 | | 1200 | 860514 | 1200 | 860606 | 2 | | 430.00 | 112.7 |

PROJECT: EPAAR1
GLOBAL GEOCHEMISTRY

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN<br>uequiv/l | COND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1614 | WVWAR | 860122 | 4.18 | 3 | 99 | 9999.00 | 9999.00 | 150.000 | 4.17 | | |
| 1632 | WVWAR | 860130 | 4.18 | | | 1.09 | 1.05 | 480.000 | 4.13 | 78.19 | 38.2 |
| 1888 | WVWAR | 860508 | 3.68 | 3 | | 1.12 | 0.98 | 105.000 | 3.61 | 267.10 | 117.0 |

| ID | STN | BD | F ug/ml umoles/l | CL ug/ml umoles/l | NO2 ug/ml umoles/l | PO4 ug/ml umoles/l | BR ug/ml umoles/l | NO3 ug/ml umoles/l | SO4 ug/ml umoles/l | NH4 ug/ml umoles/l | NA ug/ml umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1614 | WVWAR | 860122 | | | | | | | | | |
| 1632 | WVWAR | 860130 | 0.047 | 0.416 | -0.012 | -0.022 | 0.087 | 1.971 | 4.579 | 0.304 | 0.175 |
| | | | 2.475 | 11.744 | -0.256 | -0.232 | 1.084 | 31.728 | 47.625 | 16.850 | 7.602 |
| 1888 | WVWAR | 860508 | 0.071 | 0.416 | -0.010 | -0.022 | -0.004 | 5.951 | 11.176 | 0.466 | 0.108 |
| | | | 3.739 | 11.733 | -0.213 | -0.236 | -0.047 | 95.808 | 116.231 | 25.831 | 4.686 |

```
ID        STN       BD              K         CA         MG
                                ug/ml      ug/ml      ug/ml
                            umoles/l   umoles/l   umoles/l

 1614     WVWAR     860122


 1632     WVWAR     860130      0.023      0.459      0.117
                                0.580     11.443      4.833

 1888     WVWAR     860508      0.077      0.435      0.108
                                1.959     10.858      4.442
```

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

13-APR-87

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1924 | WVWAR | 860514 |  | 1200 | 860522 | 1200 | 860617 | 5 |  | 368.80 | 84.4 |
| 1925 | WVWAR | 860522 |  | 1200 | 860528 | 1200 | 860617 |  |  | 867.20 | 52.6 |
| 1940 | WVWAR | 860604 |  | 1200 | 860611 | 1200 | 860627 | 4 |  | 2412.90 | 78.1 |
| 1958 | WVWAR | 860618 |  | 1200 | 860625 | 1200 | 860708 |  |  | 608.40 | 99.4 |
| 1977 | WVWAR | 860625 |  | 1200 | 860702 | 1200 | 860716 | 4 |  | 4398.20 | 48.4 |
| 2001 | WVWAR | 860702 |  | 1200 | 860709 | 1200 | 860725 | 2 |  | 2910.70 | 33.0 |
| 2026 | WVWAR | 860716 |  | 1200 | 860723 | 1200 | 860804 | 2 |  | 1401.20 | 29.1 |
| 2041 | WVWAR | 860709 |  | 1200 | 860716 | 1200 | 860807 | 2 |  | 1400.90 | 59.5 |
| 2056 | WVWAR | 860723 |  | 1200 | 860730 | 1200 | 860813 |  |  | 668.00 | 118.8 |
| 2078 | WVWAR | 860806 |  | 1200 | 860813 | 1200 | 860819 | 1 |  | 1984.20 | 61.9 |
| 2101 | WVWAR | 860813 |  | 1200 | 860820 | 1200 | 860828 | 3 |  | 541.40 | 148.7 |
| 2180 | WVWAR | 860820 |  | 1200 | 860828 | 1200 | 860925 | 2 |  | 1513.90 | 62.5 |
| 2228 | WVWAR | 861002 |  | 1200 | 861008 | 1200 | 861020 | 2 |  | 2455.10 | 26.7 |
| 2260 | WVWAR | 861008 |  | 1200 | 861016 | 1200 | 861029 | 3 |  | 608.70 | 37.0 |
| 2288 | WVWAR | 861021 |  | 1200 | 861029 | 1200 | 861106 | 2 |  | 1107.00 | 46.1 |
| 2324 | WVWAR | 861029 |  | 1200 | 861106 | 1200 | 861121 |  |  | 1663.70 | 33.1 |
| 2351 | WVWAR | 861106 |  | 1200 | 861112 | 1200 | 861129 |  |  | 2755.90 | 28.5 |

| ID | STN | BD | TYPE | BT | ED<br>YRMODY | ET | DR<br>YRMODY | EVENT<br># EVENTS | INCH | FWT<br>gm | FCOND<br>umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2374 | WVWAR | 861112 |  | 1200 | 861121 | 1200 | 861205 |  |  | 817.80 | 50.3 |
| 2375 | WVWAR | 861121 |  | 1200 | 861126 | 1200 | 861205 |  |  | 1785.20 | 29.6 |
| 2415 | WVWAR | 861203 |  | 1200 | 861210 | 1200 | 861222 |  |  | 1042.20 | 39.2 |
| 2443 | WVWAR | 861126 |  | 1200 | 861203 | 1200 | 870105 |  |  | 2303.80 | 20.8 |
| 2472 | WVWAR | 861223 |  | 1200 | 861230 | 1200 | 870109 |  |  | 1471.40 | 26.2 |
| 2503 | WVWAR | 861230 | 2 | 1200 | 870106 | 1200 | 870120 |  |  | 802.00 | 39.7 |
| 2528 | WVWAR | 861217 |  | 1200 | 861223 | 1200 | 870122 |  |  | 548.60 | 51.4 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1924 | WVWAR | 860514 | 3.82 | 3 |  | 0.88 | 1.01 | 90.0 | 3.77 | 187.4 | 87.2 |
| 1925 | WVWAR | 860522 | 4.00 | 3 |  | 1.07 | 0.99 | 350.0 | 3.96 | 119.9 | 52.3 |
| 1940 | WVWAR | 860604 | 3.81 |  |  | 1.06 | 0.97 | 425.0 | 3.75 | 195.0 | 83.3 |
| 1958 | WVWAR | 860618 | 3.72 |  |  | 1.08 | 0.96 | 155.0 | 3.70 | 219.6 | 104.9 |
| 1977 | WVWAR | 860625 | 3.99 |  |  | 1.04 | 1.00 | 450.0 | 3.96 | 121.7 | 51.1 |
| 2001 | WVWAR | 860702 | 4.05 |  |  | 1.07 | 1.01 | 445.0 | 4.14 | 84.3 | 34.7 |
| 2026 | WVWAR | 860716 | 4.29 |  |  | 1.03 | 1.04 | 400.0 | 4.30 | 56.1 | 27.7 |
| 2041 | WVWAR | 860709 | 3.80 |  |  | 1.08 | 0.99 | 260.0 | 3.85 | 153.0 | 66.9 |
| 2056 | WVWAR | 860723 | 3.59 |  |  | 1.09 | 0.96 | 60.0 | 3.60 | 282.2 | 121.3 |
| 2078 | WVWAR | 860806 | 3.99 | 3 |  | 1.09 | 1.06 | 280.0 | 3.87 | 147.0 | 59.6 |
| 2101 | WVWAR | 860813 | 3.65 |  |  | 1.05 | 1.02 | 100.0 | 3.49 | 345.9 | 147.7 |
| 2180 | WVWAR | 860820 | 4.07 |  |  | 1.06 | 1.02 | 250.0 | 3.89 | 137.9 | 60.4 |
| 2228 | WVWAR | 861002 | 4.29 |  |  | 1.06 | 1.11 | 400.0 | 4.26 | 59.6 | 23.3 |
| 2260 | WVWAR | 861008 | 4.18 | 3 |  | 1.13 | 1.06 | 160.0 | 4.14 | 81.2 | 32.1 |
| 2288 | WVWAR | 861021 | 4.09 |  |  | 1.07 | 1.05 | 180.0 | 4.03 | 106.1 | 41.5 |
| 2324 | WVWAR | 861029 | 4.19 |  |  | 1.06 | 1.08 | 350.0 | 4.15 | 75.1 | 30.0 |
| 2351 | WVWAR | 861106 | 4.23 |  |  | 1.10 | 1.08 | 400.0 | 4.20 | 69.5 | 25.9 |

| ID | STN | BD | FPH | CODE1 | CODE2 | A/C | TC/MC | WT | PH | GRAN uequiv/l | COND umho/cm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2374 | WVWAR | 861112 | 4.00 | 3 |  | 1.04 | 1.03 | 380.0 | 3.96 | 113.6 | 49.3 |
| 2375 | WVWAR | 861121 | 4.30 |  |  | 1.13 | 1.09 | 525.0 | 4.18 | 69.4 | 26.7 |
| 2415 | WVWAR | 861203 | 4.10 | 3 |  | 1.14 | 1.01 | 225.0 | 4.08 | 92.9 | 36.8 |
| 2443 | WVWAR | 861126 | 4.39 |  |  | 1.11 | 1.13 | 550.0 | 4.32 | 53.0 | 19.2 |
| 2472 | WVWAR | 861223 | 4.42 |  |  | 1.14 | 1.10 | 350.0 | 4.24 | 61.3 | 23.8 |
| 2503 | WVWAR | 861230 | 4.20 |  |  | 1.08 | 0.97 | 130.0 | 4.14 | 81.2 | 39.1 |
| 2528 | WVWAR | 861217 | 4.41 |  |  | 1.10 | 0.97 | 175.0 | 3.97 | 122.0 | 53.7 |

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1924 | WVWAR | 860514 | 0.121 | 0.596 | -0.012 | -0.019 | -0.006 | 3.502 | 8.950 | 0.603 | 0.128 |
| | | | 6.388 | 16.809 | -0.262 | -0.197 | -0.077 | 56.380 | 93.082 | 33.401 | 5.573 |
| 1925 | WVWAR | 860522 | 0.076 | 0.822 | -0.012 | -0.018 | -0.006 | 1.753 | 4.635 | 0.405 | 0.038 |
| | | | 3.979 | 23.186 | -0.262 | -0.190 | -0.074 | 28.230 | 48.205 | 22.461 | 1.641 |
| 1940 | WVWAR | 860604 | 0.052 | 0.336 | -0.009 | -0.020 | -0.020 | 3.100 | 7.697 | 0.404 | 0.045 |
| | | | 2.746 | 9.474 | -0.191 | -0.214 | -0.255 | 49.904 | 80.052 | 22.358 | 1.964 |
| 1958 | WVWAR | 860618 | 0.044 | 0.412 | -0.008 | 0.041 | -0.005 | 5.029 | 10.794 | 0.922 | 0.034 |
| | | | 2.339 | 11.611 | -0.179 | 0.435 | -0.060 | 80.969 | 112.260 | 51.066 | 1.475 |
| 1977 | WVWAR | 860625 | 0.027 | 0.175 | -0.007 | -0.024 | -0.014 | 1.793 | 5.222 | 0.314 | 0.042 |
| | | | 1.443 | 4.927 | -0.151 | -0.247 | -0.179 | 28.863 | 54.310 | 17.382 | 1.808 |
| 2001 | WVWAR | 860702 | 0.013 | 0.111 | -0.002 | 0.042 | -0.013 | 1.313 | 3.763 | 0.254 | 0.047 |
| | | | 0.699 | 3.121 | -0.040 | 0.437 | -0.168 | 21.145 | 39.137 | 14.099 | 2.045 |
| 2026 | WVWAR | 860716 | 0.015 | 0.113 | -0.008 | 0.036 | -0.005 | 2.017 | 3.201 | 0.474 | 0.073 |
| | | | 0.812 | 3.179 | -0.182 | 0.381 | -0.063 | 32.473 | 33.294 | 26.279 | 3.187 |
| 2041 | WVWAR | 860709 | 0.059 | 0.565 | -0.009 | 0.027 | -0.004 | 3.329 | 5.879 | 0.373 | 0.107 |
| | | | 3.099 | 15.942 | -0.203 | 0.282 | -0.052 | 53.593 | 61.137 | 20.688 | 4.648 |
| 2056 | WVWAR | 860723 | 0.058 | 0.255 | -0.014 | -0.066 | -0.011 | 3.568 | 12.818 | 0.743 | 0.045 |
| | | | 3.044 | 7.188 | -0.313 | -0.691 | -0.139 | 57.437 | 133.302 | 41.166 | 1.945 |
| 2078 | WVWAR | 860806 | 0.064 | 0.262 | -0.006 | -0.040 | -0.020 | 2.283 | 6.615 | 0.393 | 0.025 |
| | | | 3.372 | 7.387 | -0.121 | -0.416 | -0.254 | 36.762 | 68.799 | 21.753 | 1.073 |
| 2101 | WVWAR | 860813 | 0.082 | 0.419 | -0.005 | -0.020 | -0.016 | 5.409 | 15.500 | 0.786 | 0.063 |
| | | | 4.330 | 11.810 | -0.105 | -0.209 | -0.202 | 87.082 | 161.196 | 43.540 | 2.720 |
| 2180 | WVWAR | 860820 | 0.027 | 0.141 | -0.014 | 0.025 | -0.025 | 2.301 | 6.769 | 0.468 | 0.027 |
| | | | 1.419 | 3.965 | -0.295 | 0.260 | -0.311 | 37.047 | 70.399 | 25.923 | 1.192 |
| 2228 | WVWAR | 861002 | 0.014 | 0.193 | 0.000 | 0.022 | 0.000 | 0.964 | 2.531 | 0.169 | 0.062 |
| | | | 0.743 | 5.451 | 0.000 | 0.230 | 0.000 | 15.517 | 26.324 | 9.382 | 2.713 |
| 2260 | WVWAR | 861008 | 0.044 | 0.290 | 0.000 | 0.023 | 0.000 | 1.406 | 3.288 | 0.145 | 0.022 |
| | | | 2.320 | 8.172 | 0.000 | 0.242 | 0.000 | 22.637 | 34.190 | 8.012 | 0.965 |
| 2288 | WVWAR | 861021 | 0.032 | 0.222 | -0.005 | -0.047 | -0.004 | 2.450 | 3.726 | 0.247 | 0.024 |
| | | | 1.698 | 6.274 | -0.112 | -0.494 | -0.054 | 39.444 | 38.749 | 13.693 | 1.023 |
| 2324 | WVWAR | 861029 | 0.025 | 0.238 | 0.023 | 0.046 | 0.046 | 1.757 | 2.551 | 0.147 | 0.021 |
| | | | 1.326 | 6.720 | 0.495 | 0.484 | 0.578 | 28.284 | 26.535 | 8.129 | 0.903 |
| 2351 | WVWAR | 861106 | 0.025 | 0.233 | 0.027 | 0.071 | -0.013 | 0.797 | 2.487 | 0.045 | 0.016 |
| | | | 1.299 | 6.582 | 0.589 | 0.745 | -0.166 | 12.834 | 25.862 | 2.509 | 0.700 |

PROJECT: EPAAR2
GLOBAL GEOCHEMISTRY

| ID | STN | BD | F<br>ug/ml<br>umoles/l | CL<br>ug/ml<br>umoles/l | NO2<br>ug/ml<br>umoles/l | PO4<br>ug/ml<br>umoles/l | BR<br>ug/ml<br>umoles/l | NO3<br>ug/ml<br>umoles/l | SO4<br>ug/ml<br>umoles/l | NH4<br>ug/ml<br>umoles/l | NA<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2374 | WVWAR | 861112 | 0.052 | 0.515 | 0.023 | -0.014 | -0.014 | 2.649 | 4.022 | 0.344 | 0.023 |
| | | | 2.728 | 14.518 | 0.497 | -0.150 | -0.171 | 42.650 | 41.829 | 19.032 | 1.000 |
| 2375 | WVWAR | 861121 | 0.035 | 0.281 | 0.010 | 0.145 | 0.097 | 0.454 | 2.692 | 0.026 | 0.023 |
| | | | 1.855 | 7.912 | 0.216 | 1.524 | 1.220 | 7.306 | 28.001 | 1.452 | 0.981 |
| 2415 | WVWAR | 861203 | 0.049 | 0.406 | -0.006 | 0.088 | 0.242 | 1.807 | 2.740 | 0.113 | 0.012 |
| | | | 2.581 | 11.447 | -0.139 | 0.924 | 3.024 | 29.090 | 28.494 | 6.241 | 0.504 |
| 2443 | WVWAR | 861126 | -0.006 | 0.176 | -0.010 | 0.100 | -0.056 | 1.042 | 1.730 | 0.040 | 0.041 |
| | | | -0.325 | 4.974 | -0.220 | 1.049 | -0.698 | 16.770 | 17.991 | 2.196 | 1.772 |
| 2472 | WVWAR | 861223 | 0.037 | 0.196 | -0.008 | -0.051 | 0.172 | 1.320 | 2.153 | 0.059 | 0.028 |
| | | | 1.948 | 5.534 | -0.164 | -0.531 | 2.152 | 21.253 | 22.394 | 3.276 | 1.199 |
| 2503 | WVWAR | 861230 | 0.028 | 0.405 | -0.043 | 0.029 | -0.010 | 3.996 | 2.467 | 0.569 | 0.168 |
| | | | 1.454 | 11.418 | -0.937 | 0.309 | -0.128 | 64.339 | 25.655 | 31.524 | 7.298 |
| 2528 | WVWAR | 861217 | 0.046 | 0.308 | 0.044 | 0.032 | -0.008 | 3.068 | 4.798 | 0.405 | 0.066 |
| | | | 2.437 | 8.694 | 0.957 | 0.332 | -0.095 | 49.389 | 49.902 | 22.440 | 2.852 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 1924 | WVWAR | 860514 | 0.886 | 1.110 | 0.204 |
| | | | 22.660 | 27.690 | 8.381 |
| 1925 | WVWAR | 860522 | 0.021 | 0.150 | 0.021 |
| | | | 0.540 | 3.747 | 0.883 |
| 1940 | WVWAR | 860604 | 0.020 | 0.123 | 0.022 |
| | | | 0.521 | 3.070 | 0.898 |
| 1958 | WVWAR | 860618 | 0.038 | 0.718 | 0.116 |
| | | | 0.966 | 17.911 | 4.785 |
| 1977 | WVWAR | 860625 | 0.014 | 0.166 | 0.025 |
| | | | 0.352 | 4.133 | 1.038 |
| 2001 | WVWAR | 860702 | 0.017 | 0.161 | 0.022 |
| | | | 0.444 | 4.010 | 0.913 |
| 2026 | WVWAR | 860716 | 0.026 | 0.362 | 0.046 |
| | | | 0.653 | 9.030 | 1.901 |
| 2041 | WVWAR | 860709 | 0.029 | 0.244 | 0.045 |
| | | | 0.737 | 6.082 | 1.846 |
| 2056 | WVWAR | 860723 | 0.022 | 0.256 | 0.028 |
| | | | 0.555 | 6.384 | 1.144 |
| 2078 | WVWAR | 860806 | 0.018 | 0.202 | 0.029 |
| | | | 0.465 | 5.043 | 1.206 |
| 2101 | WVWAR | 860813 | 0.049 | 0.637 | 0.090 |
| | | | 1.254 | 15.881 | 3.686 |
| 2180 | WVWAR | 860820 | 0.023 | 0.313 | 0.043 |
| | | | 0.583 | 7.799 | 1.777 |
| 2228 | WVWAR | 861002 | 0.010 | 0.063 | 0.013 |
| | | | 0.255 | 1.576 | 0.547 |
| 2260 | WVWAR | 861008 | 0.015 | 0.154 | 0.025 |
| | | | 0.396 | 3.834 | 1.048 |
| 2288 | WVWAR | 861021 | 0.016 | 0.155 | 0.016 |
| | | | 0.409 | 3.866 | 0.650 |
| 2324 | WVWAR | 861029 | 0.008 | 0.116 | 0.015 |
| | | | 0.192 | 2.898 | 0.615 |
| 2351 | WVWAR | 861106 | 0.009 | 0.046 | 0.006 |
| | | | 0.232 | 1.149 | 0.254 |

| ID | STN | BD | K<br>ug/ml<br>umoles/l | CA<br>ug/ml<br>umoles/l | MG<br>ug/ml<br>umoles/l |
|---|---|---|---|---|---|
| 2374 | WVWAR | 861112 | 0.019 | 0.166 | 0.020 |
| | | | 0.488 | 4.151 | 0.813 |
| 2375 | WVWAR | 861121 | -0.006 | 0.031 | 0.007 |
| | | | -0.151 | 0.775 | 0.283 |
| 2415 | WVWAR | 861203 | 0.010 | 0.060 | 0.009 |
| | | | 0.247 | 1.508 | 0.380 |
| 2443 | WVWAR | 861126 | 0.005 | 0.048 | 0.010 |
| | | | 0.135 | 1.208 | 0.403 |
| 2472 | WVWAR | 861223 | 0.032 | 0.068 | 0.011 |
| | | | 0.826 | 1.706 | 0.458 |
| 2503 | WVWAR | 861230 | 0.055 | 0.118 | 0.028 |
| | | | 1.407 | 2.953 | 1.167 |
| 2528 | WVWAR | 861217 | 0.044 | 0.241 | 0.033 |
| | | | 1.116 | 6.016 | 1.374 |

## 3.0 SUMMARY OF ANALYTICAL DATA BY SITE

Table 3-1 compares the occurrence of different concentration levels at each site for the time period JAN 86 through DEC 86. The concentration at which 100%, 75%, 50%, 25%, and 0% of the samples have concentrations greater than the given value are listed for each site and for each analyte.

Table 3-2 gives the precipitation weighted mean data for the time period JAN 86 through DEC 86. pH data were converted to hydrogen ion concentration, weighted and then converted back to pH.

For Tables 3-1 and 3-2, samples which have the following values under the "CODE2" mnemonic are excluded: "99" - this is a sample voided by GGC because of visually obvious contamination; "31" - a sample which the field operator indicated as having bird droppings; "32" - a sample which the field operator indicated as being cloudy or colored; "34" - a sample which the field operator indicated as having insects; "90" - a dry side bucket.

Note that data are included in Tables 3-1 and 3-2 even if the operator indicated a sampler malfunction or if the operator indicated that there was dirt or dust in the sample.

## TABLE 3-1

## CUMULATIVE FREQUENCY OF OCCURRENCE: PPTN, CM

| | | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 0.01 | 0.18 | 2.66 | 4.99 | 12.27 |
| ALMOB | 20 | 0.23 | 1.93 | 2.69 | 3.58 | 8.26 |
| DEGEO | 29 | 0.16 | 1.20 | 2.10 | 3.03 | 7.87 |
| DELUM | 37 | 0.01 | 0.53 | 2.17 | 3.78 | 7.11 |
| GADAW | 34 | 0.08 | 0.70 | 1.78 | 3.24 | 12.75 |
| GADUF | 18 | 0.05 | 0.38 | 0.84 | 3.37 | 6.65 |
| GAHIW | 32 | 0.18 | 0.94 | 1.50 | 5.13 | 14.73 |
| GASUM | 39 | 0.13 | 1.05 | 1.91 | 3.77 | 9.14 |
| GAWAY | 18 | 0.08 | 0.23 | 1.63 | 4.36 | 17.02 |
| GABFG | 15 | 0.05 | 0.85 | 1.78 | 3.67 | 8.18 |
| KYGRA | 37 | 0.13 | 0.47 | 1.07 | 1.94 | 11.56 |
| KYMAM | 43 | 0.03 | 0.22 | 1.38 | 3.48 | 7.20 |
| LACAR | 32 | 0.00 | 0.74 | 2.03 | 4.09 | 13.64 |
| LACHS | 27 | 0.11 | 0.24 | 2.12 | 3.94 | 13.21 |
| LAROS | 44 | 0.05 | 0.53 | 1.96 | 3.51 | 17.09 |
| MDRGP | 30 | 0.13 | 0.51 | 1.28 | 2.45 | 5.00 |
| MD3EC | 34 | 0.13 | 0.62 | 1.52 | 2.60 | 8.33 |
| MSUNI | 26 | 0.05 | 0.64 | 1.84 | 3.80 | 14.15 |
| SCCAP | 43 | 0.00 | 0.25 | 1.49 | 4.30 | 10.52 |
| SCCON | 28 | 0.06 | 0.23 | 1.12 | 2.72 | 11.10 |
| SCDEL | 35 | 0.02 | 0.21 | 1.77 | 3.17 | 8.58 |
| SCLON | 29 | 0.01 | 0.06 | 0.27 | 0.72 | 2.84 |
| TNCEN | 35 | 0.10 | 0.33 | 1.30 | 3.82 | 14.07 |
| WVAPC | 30 | 0.81 | 1.32 | 2.43 | 3.43 | 10.24 |
| WVGRN | 25 | 0.57 | 1.28 | 1.70 | 2.32 | 5.98 |
| WVNEW | 32 | 0.33 | 1.10 | 1.44 | 2.64 | 5.48 |
| WVWAR | 26 | 0.54 | 0.94 | 2.06 | 3.16 | 6.48 |
| SDAPR | 2 | 0.13 | 0.06 | 0.13 | 0.14 | 0.15 |
| SDBGP | 2 | 0.05 | 0.03 | 0.05 | 0.27 | 0.48 |
| SDBPR | 3 | 0.13 | 0.10 | 0.14 | 0.60 | 1.93 |

## TABLE 3-1 (CONTINUED)

### CUMULATIVE FREQUENCY OF OCCURRENCE: PH

|  |  | % OF SAMPLES GREATER THAN GIVEN VALUE |  |  |  |  |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 3.87 | 4.31 | 4.51 | 4.77 | 5.21 |
| ALMOB | 20 | 4.11 | 4.36 | 4.49 | 4.73 | 5.02 |
| DEGEO | 29 | 3.84 | 4.24 | 4.53 | 4.80 | 5.43 |
| DELUM | 37 | 3.45 | 3.99 | 4.19 | 4.40 | 6.81 |
| GADAW | 34 | 3.83 | 4.31 | 4.46 | 4.57 | 4.84 |
| GADUF | 18 | 3.85 | 4.07 | 4.40 | 4.56 | 4.92 |
| GAHIW | 32 | 3.87 | 4.29 | 4.43 | 4.61 | 4.83 |
| GASUM | 39 | 3.84 | 4.22 | 4.36 | 4.59 | 4.95 |
| GAWAY | 18 | 3.69 | 4.17 | 4.59 | 4.75 | 5.02 |
| GABFG | 15 | 3.85 | 4.34 | 4.50 | 4.55 | 4.70 |
| KYGRA | 37 | 3.67 | 4.10 | 4.25 | 4.49 | 5.14 |
| KYMAM | 43 | 3.61 | 4.21 | 4.39 | 4.55 | 5.99 |
| LACAR | 32 | 4.33 | 4.73 | 5.09 | 5.65 | 6.47 |
| LACHS | 27 | 3.77 | 4.44 | 4.77 | 5.15 | 7.25 |
| LAROS | 44 | 3.92 | 4.62 | 4.80 | 5.11 | 5.92 |
| MDRGP | 30 | 3.69 | 3.96 | 4.16 | 4.32 | 4.48 |
| MD3EC | 34 | 3.72 | 3.91 | 4.18 | 4.54 | 5.01 |
| MSUNI | 26 | 4.10 | 4.40 | 4.64 | 4.80 | 6.29 |
| SCCAP | 43 | 3.60 | 4.19 | 4.37 | 4.77 | 5.16 |
| SCCON | 28 | 3.95 | 4.28 | 4.53 | 4.64 | 5.21 |
| SCDEL | 35 | 3.53 | 4.11 | 4.37 | 4.55 | 4.85 |
| SCLON | 29 | 3.82 | 4.12 | 4.25 | 4.46 | 5.63 |
| TNCEN | 35 | 3.68 | 4.17 | 4.41 | 4.59 | 5.86 |
| WVAPC | 30 | 3.77 | 4.03 | 4.21 | 4.34 | 4.55 |
| WVGRN | 25 | 4.03 | 4.13 | 4.36 | 4.56 | 5.19 |
| WVNEW | 32 | 3.75 | 3.89 | 4.01 | 4.17 | 4.46 |
| WVWAR | 26 | 3.49 | 3.81 | 3.97 | 4.15 | 4.32 |
| SDAPR | 2 | 5.22 | 2.61 | 5.22 | 5.25 | 5.27 |
| SDBGP | 2 | 5.61 | 2.81 | 5.61 | 5.68 | 5.75 |
| SDBPR | 3 | 4.85 | 3.64 | 4.98 | 5.16 | 5.32 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: COND, UMHO/CM

| | | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 4.0 | 8.2 | 13.1 | 31.0 | 244.2 |
| ALMOB | 20 | 6.4 | 10.8 | 14.1 | 21.0 | 46.2 |
| DEGEO | 29 | 4.2 | 10.5 | 16.3 | 29.0 | 80.0 |
| DELUM | 37 | 0.0 | 20.4 | 28.9 | 54.1 | 172.8 |
| GADAW | 34 | 6.2 | 14.8 | 18.1 | 25.0 | 75.4 |
| GADUF | 18 | 5.7 | 9.5 | 16.7 | 40.0 | 68.0 |
| GAHIW | 32 | 5.3 | 12.3 | 19.1 | 23.1 | 74.8 |
| GASUM | 39 | 6.1 | 13.5 | 20.1 | 31.4 | 69.4 |
| GAWAY | 18 | 4.4 | 8.9 | 14.2 | 26.9 | 103.8 |
| GABFG | 15 | 8.2 | 10.3 | 13.5 | 19.5 | 79.6 |
| KYGRA | 37 | 2.2 | 17.0 | 25.5 | 35.9 | 122.1 |
| KYMAM | 43 | 7.6 | 13.9 | 22.6 | 30.6 | 138.6 |
| LACAR | 32 | 0.4 | 9.4 | 13.3 | 18.8 | 52.3 |
| LACHS | 27 | 3.2 | 8.0 | 11.8 | 21.8 | 82.3 |
| LAROS | 44 | 3.5 | 6.9 | 10.9 | 22.2 | 89.8 |
| MDRGP | 30 | 12.3 | 19.3 | 30.5 | 49.6 | 95.8 |
| MD3EC | 34 | 4.1 | 15.5 | 28.0 | 54.4 | 105.7 |
| MSUNI | 26 | 3.4 | 9.3 | 12.1 | 21.2 | 80.4 |
| SCCAP | 43 | 4.9 | 10.2 | 27.4 | 42.0 | 165.7 |
| SCCON | 28 | 4.0 | 10.8 | 17.7 | 25.7 | 73.7 |
| SCDEL | 35 | 5.3 | 13.1 | 20.6 | 40.0 | 122.3 |
| SCLON | 29 | 7.5 | 23.3 | 29.4 | 40.6 | 80.8 |
| TNCEN | 35 | 4.7 | 12.9 | 20.3 | 32.8 | 122.9 |
| WVAPC | 30 | 11.8 | 19.1 | 28.7 | 47.7 | 86.0 |
| WVGRN | 25 | 2.2 | 10.9 | 19.7 | 32.2 | 49.9 |
| WVNEW | 32 | 15.5 | 30.5 | 43.0 | 60.2 | 86.6 |
| WVWAR | 26 | 19.2 | 28.8 | 41.5 | 63.7 | 147.7 |
| SDAPR | 2 | 2.5 | 1.2 | 2.5 | 5.5 | 8.5 |
| SDBGP | 2 | 6.1 | 3.1 | 6.1 | 6.3 | 6.4 |
| SDBPR | 3 | 2.9 | 2.2 | 4.3 | 7.0 | 11.0 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: F,MG/L

| SITE | #PTS | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| | | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | -0.010 | 0.004 | 0.009 | 0.031 | 0.318 |
| ALMOB | 20 | -0.032 | -0.001 | 0.006 | 0.012 | 0.025 |
| DEGEO | 29 | -0.008 | -0.002 | 0.009 | 0.019 | 0.042 |
| DELUM | 37 | -0.006 | 0.004 | 0.014 | 0.035 | 0.204 |
| GADAW | 34 | -0.009 | -0.002 | 0.011 | 0.019 | 0.077 |
| GADUF | 18 | -0.012 | 0.002 | 0.012 | 0.035 | 0.092 |
| GAHIW | 32 | -0.010 | 0.005 | 0.009 | 0.016 | 0.088 |
| GASUM | 39 | -0.005 | 0.011 | 0.015 | 0.021 | 0.045 |
| GAWAY | 18 | -0.007 | -0.002 | 0.008 | 0.022 | 0.116 |
| GABFG | 15 | -0.009 | -0.002 | 0.008 | 0.019 | 0.072 |
| KYGRA | 37 | -0.005 | 0.011 | 0.016 | 0.022 | 0.063 |
| KYMAM | 43 | -0.011 | 0.008 | 0.013 | 0.027 | 0.109 |
| LACAR | 32 | -0.002 | 0.005 | 0.018 | 0.071 | 0.319 |
| LACHS | 27 | -0.010 | -0.001 | 0.008 | 0.018 | 0.072 |
| LAROS | 44 | -0.008 | 0.005 | 0.012 | 0.031 | 0.118 |
| MDRGP | 30 | -0.007 | 0.006 | 0.014 | 0.028 | 0.087 |
| MD3EC | 34 | -0.011 | -0.003 | 0.012 | 0.028 | 0.046 |
| MSUNI | 26 | -0.009 | 0.005 | 0.009 | 0.014 | 0.104 |
| SCCAP | 43 | -0.008 | 0.004 | 0.014 | 0.034 | 0.129 |
| SCCON | 28 | -0.010 | -0.001 | 0.014 | 0.025 | 0.060 |
| SCDEL | 35 | -0.007 | 0.008 | 0.014 | 0.039 | 0.121 |
| SCLON | 29 | -0.090 | 0.002 | 0.027 | 0.046 | 0.222 |
| TNCEN | 35 | -0.008 | 0.005 | 0.012 | 0.023 | 0.065 |
| WVAPC | 30 | 0.009 | 0.016 | 0.022 | 0.033 | 0.060 |
| WVGRN | 25 | -0.007 | 0.003 | 0.007 | 0.019 | 0.025 |
| WVNEW | 32 | -0.004 | 0.036 | 0.055 | 0.070 | 0.186 |
| WVWAR | 26 | -0.006 | 0.026 | 0.044 | 0.055 | 0.121 |
| SDAPR | 2 | -0.003 | -0.001 | -0.003 | -0.003 | -0.002 |
| SDBGP | 2 | 0.005 | 0.002 | 0.005 | 0.015 | 0.026 |
| SDBPR | 3 | -0.003 | -0.002 | -0.003 | -0.000 | 0.007 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: CL,MG/L

| | | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 0.063 | 0.134 | 0.282 | 0.579 | 17.223 |
| ALMOB | 20 | 0.132 | 0.341 | 0.559 | 0.906 | 3.077 |
| DEGEO | 29 | 0.047 | 0.176 | 0.291 | 0.572 | 1.828 |
| DELUM | 37 | 0.000 | 0.157 | 0.294 | 0.692 | 1.995 |
| GADAW | 34 | 0.069 | 0.107 | 0.234 | 0.327 | 3.605 |
| GADUF | 18 | 0.053 | 0.119 | 0.253 | 0.402 | 2.985 |
| GAHIW | 32 | 0.049 | 0.107 | 0.177 | 0.471 | 1.234 |
| GASUM | 39 | 0.079 | 0.125 | 0.195 | 0.388 | 2.038 |
| GAWAY | 18 | 0.079 | 0.235 | 0.392 | 0.538 | 1.452 |
| GABFG | 15 | 0.050 | 0.114 | 0.191 | 0.470 | 3.411 |
| KYGRA | 37 | 0.009 | 0.088 | 0.151 | 0.230 | 0.503 |
| KYMAM | 43 | 0.050 | 0.090 | 0.127 | 0.286 | 1.745 |
| LACAR | 32 | 0.012 | 0.192 | 0.393 | 0.924 | 8.768 |
| LACHS | 27 | 0.086 | 0.178 | 0.302 | 0.657 | 4.729 |
| LAROS | 44 | 0.019 | 0.201 | 0.368 | 1.047 | 6.607 |
| MDRGP | 30 | 0.041 | 0.059 | 0.107 | 0.227 | 0.557 |
| MD3EC | 34 | 0.096 | 0.323 | 0.613 | 1.316 | 6.471 |
| MSUNI | 26 | 0.038 | 0.100 | 0.184 | 0.387 | 13.113 |
| SCCAP | 43 | 0.169 | 0.455 | 0.768 | 2.177 | 12.817 |
| SCCON | 28 | 0.082 | 0.230 | 0.501 | 0.868 | 2.298 |
| SCDEL | 35 | 0.029 | 0.175 | 0.260 | 0.545 | 1.098 |
| SCLON | 29 | 0.057 | 0.226 | 0.282 | 0.549 | 2.757 |
| TNCEN | 35 | 0.020 | 0.082 | 0.165 | 0.268 | 1.018 |
| WVAPC | 30 | 0.070 | 0.123 | 0.194 | 0.297 | 1.443 |
| WVGRN | 25 | 0.016 | 0.067 | 0.095 | 0.143 | 0.226 |
| WVNEW | 32 | 0.132 | 0.242 | 0.446 | 0.644 | 2.082 |
| WVWAR | 26 | 0.111 | 0.195 | 0.281 | 0.414 | 0.822 |
| SDAPR | 2 | 0.025 | 0.012 | 0.025 | 0.056 | 0.087 |
| SDBGP | 2 | 0.046 | 0.023 | 0.046 | 0.113 | 0.181 |
| SDBPR | 3 | 0.012 | 0.009 | 0.018 | 0.041 | 0.093 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: NO2, MG/L

| | | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | -0.027 | -0.012 | -0.010 | -0.006 | 0.000 |
| ALMOB | 20 | -0.027 | -0.013 | -0.008 | -0.006 | 0.000 |
| DEGEO | 29 | -0.044 | -0.014 | -0.008 | -0.004 | 0.035 |
| DELUM | 37 | -0.054 | -0.017 | -0.010 | -0.006 | 0.020 |
| GADAW | 34 | -0.056 | -0.016 | -0.009 | -0.005 | 0.048 |
| GADUF | 18 | -0.041 | -0.020 | -0.011 | -0.007 | 0.049 |
| GAHIW | 32 | -0.057 | -0.016 | -0.010 | -0.007 | 0.009 |
| GASUM | 39 | -0.034 | -0.017 | -0.012 | -0.007 | 0.062 |
| GAWAY | 18 | -0.032 | -0.015 | -0.011 | -0.007 | -0.005 |
| GABFG | 15 | -0.028 | -0.011 | -0.008 | -0.003 | 0.024 |
| KYGRA | 37 | -0.095 | -0.017 | -0.011 | -0.008 | 0.165 |
| KYMAM | 43 | -0.061 | -0.014 | -0.009 | -0.005 | 0.030 |
| LACAR | 32 | -0.038 | -0.016 | -0.010 | -0.005 | 0.053 |
| LACHS | 27 | -0.021 | -0.016 | -0.010 | -0.004 | 0.020 |
| LAROS | 44 | -0.029 | -0.014 | -0.011 | -0.006 | 0.043 |
| MDRGP | 30 | -0.044 | -0.013 | -0.010 | -0.005 | 0.026 |
| MD3EC | 34 | -0.041 | -0.013 | -0.010 | -0.006 | 0.027 |
| MSUNI | 26 | -0.033 | -0.015 | -0.009 | -0.007 | 0.026 |
| SCCAP | 43 | -0.046 | -0.012 | -0.009 | -0.006 | 0.000 |
| SCCON | 28 | -0.048 | -0.013 | -0.009 | -0.007 | 0.020 |
| SCDEL | 35 | -0.028 | -0.014 | -0.007 | -0.004 | 0.041 |
| SCLON | 29 | -0.032 | -0.013 | -0.010 | -0.006 | 0.027 |
| TNCEN | 35 | -0.053 | -0.013 | -0.010 | -0.005 | 0.030 |
| WVAPC | 30 | -0.017 | -0.012 | -0.009 | -0.006 | 0.034 |
| WVGRN | 25 | -0.017 | -0.013 | -0.011 | -0.007 | 0.021 |
| WVNEW | 32 | -0.033 | -0.013 | -0.010 | -0.007 | 0.021 |
| WVWAR | 26 | -0.043 | -0.011 | -0.008 | -0.001 | 0.044 |
| SDAPR | 2 | 0.019 | 0.010 | 0.019 | 0.022 | 0.024 |
| SDBGP | 2 | 0.047 | 0.024 | 0.047 | 0.047 | 0.048 |
| SDBPR | 3 | -0.022 | -0.016 | -0.020 | -0.009 | 0.018 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: PO4,MG/L

| SITE | #PTS | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| | | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | -0.68 | -0.02 | 0.02 | 0.04 | 0.08 |
| ALMOB | 20 | -0.07 | -0.02 | 0.03 | 0.03 | 0.41 |
| DEGEO | 29 | -0.14 | -0.02 | 0.03 | 0.05 | 0.09 |
| DELUM | 37 | -0.50 | -0.05 | -0.02 | 0.03 | 0.40 |
| GADAW | 34 | -0.06 | -0.03 | 0.01 | 0.04 | 0.09 |
| GADUF | 18 | -0.06 | -0.05 | 0.01 | 0.04 | 0.17 |
| GAHIW | 32 | -0.17 | -0.02 | 0.03 | 0.04 | 0.10 |
| GASUM | 39 | -0.63 | -0.03 | 0.02 | 0.04 | 0.53 |
| GAWAY | 18 | -0.05 | -0.03 | 0.01 | 0.03 | 0.07 |
| GABFG | 15 | -0.32 | -0.04 | 0.00 | 0.04 | 0.11 |
| KYGRA | 37 | -0.17 | -0.03 | 0.01 | 0.03 | 0.25 |
| KYMAM | 43 | -0.26 | -0.02 | 0.03 | 0.04 | 0.18 |
| LACAR | 32 | -0.40 | -0.03 | 0.01 | 0.03 | 0.69 |
| LACHS | 27 | -0.11 | -0.02 | 0.03 | 0.04 | 0.31 |
| LAROS | 44 | -0.18 | -0.02 | 0.01 | 0.03 | 0.10 |
| MDRGP | 30 | -0.06 | -0.03 | 0.03 | 0.05 | 0.11 |
| MD3EC | 34 | -0.60 | -0.04 | 0.02 | 0.04 | 0.12 |
| MSUNI | 26 | -0.29 | -0.03 | 0.03 | 0.04 | 0.12 |
| SCCAP | 43 | -0.53 | -0.03 | -0.01 | 0.04 | 0.08 |
| SCCON | 28 | -0.22 | -0.03 | 0.02 | 0.04 | 0.29 |
| SCDEL | 35 | -0.20 | -0.02 | 0.03 | 0.05 | 0.26 |
| SCLON | 29 | -0.52 | -0.03 | 0.01 | 0.04 | 0.64 |
| TNCEN | 35 | -0.05 | -0.03 | 0.01 | 0.04 | 0.08 |
| WVAPC | 30 | -0.07 | -0.02 | 0.03 | 0.04 | 0.08 |
| WVGRN | 25 | -0.05 | -0.03 | -0.00 | 0.04 | 0.07 |
| WVNEW | 32 | -0.45 | -0.03 | 0.02 | 0.03 | 0.18 |
| WVWAR | 26 | -0.07 | -0.02 | 0.02 | 0.04 | 0.15 |
| SDAPR | 2 | 0.05 | 0.02 | 0.05 | 0.06 | 0.07 |
| SDBGP | 2 | 0.05 | 0.02 | 0.05 | 0.07 | 0.09 |
| SDBPR | 3 | 0.05 | 0.03 | 0.05 | 0.06 | 0.08 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: BR, MG/L

| | | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | -0.069 | -0.042 | -0.009 | -0.003 | 1.471 |
| ALMOB | 20 | -0.062 | -0.030 | -0.025 | -0.011 | 0.183 |
| DEGEO | 29 | -0.100 | -0.030 | -0.013 | -0.006 | 0.152 |
| DELUM | 37 | -0.104 | -0.021 | -0.012 | 0.000 | 1.615 |
| GADAW | 34 | -0.080 | -0.028 | -0.015 | -0.009 | 0.143 |
| GADUF | 18 | -0.065 | -0.043 | -0.014 | -0.006 | 0.026 |
| GAHIW | 32 | -0.117 | -0.047 | -0.018 | -0.010 | 0.033 |
| GASUM | 39 | -0.114 | -0.047 | -0.015 | -0.009 | 0.100 |
| GAWAY | 18 | -0.069 | -0.027 | -0.010 | -0.007 | 0.070 |
| GABFG | 15 | -0.076 | -0.036 | -0.011 | -0.003 | 0.308 |
| KYGRA | 37 | -0.121 | -0.060 | -0.025 | -0.013 | 0.090 |
| KYMAM | 43 | -0.079 | -0.037 | -0.017 | -0.008 | 0.105 |
| LACAR | 32 | -0.082 | -0.051 | -0.027 | -0.014 | 0.027 |
| LACHS | 27 | -0.083 | -0.045 | -0.020 | -0.007 | 0.124 |
| LAROS | 44 | -0.124 | -0.035 | -0.013 | -0.007 | 0.193 |
| MDRGP | 30 | -0.068 | -0.029 | -0.012 | -0.002 | 0.924 |
| MD3EC | 34 | -0.069 | -0.035 | -0.016 | -0.007 | 0.223 |
| MSUNI | 26 | -0.068 | -0.036 | -0.017 | -0.009 | 0.184 |
| SCCAP | 43 | -0.068 | -0.037 | -0.018 | -0.005 | 0.142 |
| SCCON | 28 | -0.128 | -0.044 | -0.020 | -0.009 | 0.135 |
| SCDEL | 35 | -0.135 | -0.045 | -0.014 | -0.007 | 0.210 |
| SCLON | 29 | -0.068 | -0.025 | -0.018 | -0.006 | 0.106 |
| TNCEN | 35 | -0.068 | -0.041 | -0.016 | -0.006 | 0.135 |
| WVAPC | 30 | -0.060 | -0.020 | -0.007 | 0.037 | 0.219 |
| WVGRN | 25 | -0.064 | -0.047 | -0.013 | -0.006 | 0.062 |
| WVNEW | 32 | -0.061 | -0.020 | -0.004 | 0.063 | 0.210 |
| WVWAR | 26 | -0.056 | -0.014 | -0.006 | -0.002 | 0.242 |
| SDAPR | 2 | -0.013 | -0.006 | -0.013 | -0.013 | -0.012 |
| SDBGP | 2 | -0.041 | -0.021 | -0.041 | -0.036 | -0.031 |
| SDBPR | 3 | -0.071 | -0.053 | -0.042 | -0.013 | -0.012 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: NO3,MG/L

| | | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 0.27 | 0.48 | 0.85 | 2.11 | 25.50 |
| ALMOB | 20 | 0.29 | 0.45 | 0.86 | 1.24 | 3.61 |
| DEGEO | 29 | 0.07 | 0.46 | 0.92 | 1.74 | 5.01 |
| DELUM | 37 | 0.00 | 1.21 | 1.82 | 2.91 | 15.45 |
| GADAW | 34 | 0.26 | 0.85 | 1.13 | 1.78 | 6.53 |
| GADUF | 18 | 0.37 | 0.52 | 1.09 | 2.45 | 5.68 |
| GAHIW | 32 | 0.29 | 0.73 | 1.12 | 1.40 | 4.10 |
| GASUM | 39 | 0.32 | 0.73 | 1.23 | 1.93 | 3.61 |
| GAWAY | 18 | 0.20 | 0.51 | 0.81 | 2.27 | 5.39 |
| GABFG | 15 | 0.53 | 0.64 | 0.89 | 1.13 | 3.50 |
| KYGRA | 37 | 0.15 | 1.30 | 1.72 | 2.35 | 7.01 |
| KYMAM | 43 | 0.31 | 0.77 | 1.31 | 2.31 | 10.45 |
| LACAR | 32 | -0.09 | 0.52 | 0.85 | 1.67 | 3.68 |
| LACHS | 27 | 0.23 | 0.69 | 1.12 | 2.00 | 4.85 |
| LAROS | 44 | 0.18 | 0.50 | 0.87 | 1.77 | 5.53 |
| MDRGP | 30 | 0.63 | 1.22 | 1.71 | 3.05 | 8.62 |
| MD3EC | 34 | 0.06 | 0.67 | 1.88 | 3.31 | 9.57 |
| MSUNI | 26 | 0.25 | 0.60 | 1.01 | 1.25 | 4.72 |
| SCCAP | 43 | 0.19 | 0.42 | 1.24 | 2.17 | 9.13 |
| SCCON | 28 | 0.39 | 0.59 | 0.94 | 1.96 | 5.72 |
| SCDEL | 35 | 0.23 | 0.82 | 1.40 | 2.65 | 10.59 |
| SCLON | 29 | 0.47 | 1.15 | 1.82 | 2.47 | 4.29 |
| TNCEN | 35 | 0.34 | 0.76 | 1.30 | 2.21 | 11.18 |
| WVAPC | 30 | 0.38 | 1.14 | 1.64 | 2.42 | 5.22 |
| WVGRN | 25 | 0.13 | 0.72 | 1.27 | 1.99 | 4.71 |
| WVNEW | 32 | 0.39 | 1.36 | 1.90 | 2.88 | 5.43 |
| WVWAR | 26 | 0.45 | 1.36 | 2.02 | 3.21 | 5.95 |
| SDAPR | 2 | 0.33 | 0.17 | 0.33 | 1.17 | 2.00 |
| SDBGP | 2 | 1.05 | 0.53 | 1.05 | 1.35 | 1.65 |
| SDBPR | 3 | 0.32 | 0.24 | 0.68 | 1.27 | 1.96 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: SO4,MG/L

|  |  | % OF SAMPLES GREATER THAN GIVEN VALUE |  |  |  |  |
|---|---|---|---|---|---|---|
| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 0.49 | 0.91 | 1.34 | 2.87 | 36.10 |
| ALMOB | 20 | 0.63 | 0.87 | 1.47 | 2.04 | 3.54 |
| DEGEO | 29 | 0.48 | 1.03 | 1.93 | 3.22 | 8.68 |
| DELUM | 37 | 0.00 | 1.84 | 3.16 | 5.42 | 15.04 |
| GADAW | 34 | 0.74 | 1.75 | 2.02 | 2.99 | 6.32 |
| GADUF | 18 | 0.49 | 1.02 | 1.57 | 4.28 | 8.60 |
| GAHIW | 32 | 0.54 | 1.45 | 2.02 | 2.48 | 8.31 |
| GASUM | 39 | 0.78 | 1.57 | 2.25 | 3.26 | 6.81 |
| GAWAY | 18 | 0.41 | 0.80 | 1.24 | 2.38 | 10.43 |
| GABFG | 15 | 0.45 | 1.00 | 1.43 | 1.86 | 7.06 |
| KYGRA | 37 | 0.29 | 1.83 | 2.92 | 3.88 | 13.68 |
| KYMAM | 43 | 0.95 | 1.63 | 2.33 | 3.55 | 20.82 |
| LACAR | 32 | 0.03 | 1.13 | 1.73 | 2.32 | 10.20 |
| LACHS | 27 | 0.32 | 0.89 | 1.49 | 2.45 | 9.02 |
| LAROS | 44 | 0.34 | 0.74 | 1.12 | 2.23 | 13.17 |
| MDRGP | 30 | 0.97 | 1.47 | 2.49 | 4.53 | 9.59 |
| MD3EC | 34 | 0.46 | 1.14 | 2.57 | 4.29 | 12.67 |
| MSUNI | 26 | 0.41 | 0.94 | 1.33 | 2.35 | 5.00 |
| SCCAP | 43 | 0.41 | 0.93 | 2.41 | 3.56 | 16.04 |
| SCCON | 28 | 0.49 | 1.21 | 1.92 | 2.92 | 7.17 |
| SCDEL | 35 | 0.59 | 1.24 | 1.99 | 3.31 | 10.36 |
| SCLON | 29 | 0.94 | 2.38 | 3.55 | 4.07 | 8.13 |
| TNCEN | 35 | 0.50 | 1.40 | 2.18 | 3.34 | 9.99 |
| WVAPC | 30 | 1.20 | 2.08 | 3.55 | 4.43 | 9.61 |
| WVGRN | 25 | 0.26 | 1.00 | 1.83 | 2.96 | 4.90 |
| WVNEW | 32 | 0.81 | 3.22 | 4.35 | 6.40 | 10.41 |
| WVWAR | 26 | 1.73 | 2.62 | 4.02 | 6.69 | 15.50 |
| SDAPR | 2 | 0.26 | 0.13 | 0.26 | 0.56 | 0.86 |
| SDBGP | 2 | 0.60 | 0.30 | 0.60 | 0.62 | 0.64 |
| SDBPR | 3 | 0.25 | 0.19 | 0.49 | 0.75 | 0.83 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: NH4,MG/L

% OF SAMPLES GREATER THAN GIVEN VALUE

| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
|---|---|---|---|---|---|---|
| ALTAL | 28 | 0.04 | 0.09 | 0.15 | 0.34 | 8.31 |
| ALMOB | 20 | -0.00 | 0.05 | 0.08 | 0.17 | 0.52 |
| DEGEO | 29 | 0.08 | 0.20 | 0.34 | 0.51 | 1.49 |
| DELUM | 37 | -0.01 | 0.11 | 0.34 | 0.59 | 1.96 |
| GADAW | 34 | 0.03 | 0.23 | 0.38 | 0.61 | 1.55 |
| GADUF | 18 | 0.04 | 0.10 | 0.19 | 0.50 | 1.10 |
| GAHIW | 32 | 0.03 | 0.13 | 0.21 | 0.27 | 1.55 |
| GASUM | 39 | -0.02 | 0.15 | 0.24 | 0.38 | 1.48 |
| GAWAY | 18 | 0.03 | 0.07 | 0.19 | 0.25 | 0.94 |
| GABFG | 15 | 0.06 | 0.09 | 0.16 | 0.21 | 0.79 |
| KYGRA | 37 | -0.01 | 0.13 | 0.29 | 0.61 | 1.72 |
| KYMAM | 43 | 0.03 | 0.12 | 0.19 | 0.40 | 3.44 |
| LACAR | 32 | -0.01 | 0.21 | 0.47 | 1.24 | 4.17 |
| LACHS | 27 | 0.06 | 0.19 | 0.28 | 0.58 | 1.68 |
| LAROS | 44 | 0.05 | 0.12 | 0.27 | 0.62 | 3.60 |
| MDRGP | 30 | 0.04 | 0.13 | 0.21 | 0.47 | 0.98 |
| MD3EC | 34 | -0.01 | 0.08 | 0.24 | 0.39 | 2.66 |
| MSUNI | 26 | 0.07 | 0.15 | 0.26 | 0.34 | 0.57 |
| SCCAP | 43 | -0.03 | 0.04 | 0.11 | 0.38 | 2.20 |
| SCCON | 28 | 0.06 | 0.11 | 0.16 | 0.49 | 1.10 |
| SCDEL | 35 | -0.00 | 0.14 | 0.22 | 0.34 | 0.86 |
| SCLON | 29 | -0.00 | 0.18 | 0.33 | 0.52 | 1.08 |
| TNCEN | 35 | -0.00 | 0.12 | 0.28 | 0.48 | 2.26 |
| WVAPC | 30 | 0.11 | 0.21 | 0.36 | 0.58 | 1.17 |
| WVGRN | 25 | 0.03 | 0.07 | 0.19 | 0.33 | 1.21 |
| WVNEW | 32 | -0.03 | 0.17 | 0.28 | 0.39 | 1.39 |
| WVWAR | 26 | 0.03 | 0.15 | 0.34 | 0.47 | 0.92 |
| SDAPR | 2 | 0.08 | 0.04 | 0.08 | 0.19 | 0.31 |
| SDBGP | 2 | 0.18 | 0.09 | 0.18 | 0.42 | 0.65 |
| SDBPR | 3 | 0.05 | 0.03 | 0.17 | 0.34 | 0.50 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: NA,MG/L

| SITE | #PTS | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| | | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 0.020 | 0.070 | 0.173 | 0.406 | 12.333 |
| ALMOB | 20 | 0.069 | 0.195 | 0.313 | 0.636 | 2.022 |
| DEGEO | 29 | 0.016 | 0.076 | 0.107 | 0.315 | 1.013 |
| DELUM | 37 | 0.000 | 0.063 | 0.132 | 0.347 | 1.131 |
| GADAW | 34 | 0.023 | 0.043 | 0.122 | 0.190 | 2.325 |
| GADUF | 18 | 0.026 | 0.061 | 0.130 | 0.257 | 1.768 |
| GAHIW | 32 | 0.018 | 0.055 | 0.106 | 0.213 | 0.671 |
| GASUM | 39 | 0.020 | 0.062 | 0.092 | 0.156 | 1.232 |
| GAWAY | 18 | 0.045 | 0.144 | 0.251 | 0.356 | 0.826 |
| GABFG | 15 | 0.016 | 0.055 | 0.103 | 0.258 | 2.024 |
| KYGRA | 37 | -0.009 | 0.024 | 0.048 | 0.106 | 0.332 |
| KYMAM | 43 | 0.015 | 0.038 | 0.068 | 0.163 | 1.224 |
| LACAR | 32 | 0.007 | 0.105 | 0.193 | 0.541 | 5.337 |
| LACHS | 27 | 0.053 | 0.102 | 0.186 | 0.426 | 2.815 |
| LAROS | 44 | 0.009 | 0.109 | 0.222 | 0.593 | 3.843 |
| MDRGP | 30 | -0.003 | 0.016 | 0.031 | 0.059 | 0.248 |
| MD3EC | 34 | 0.066 | 0.163 | 0.304 | 0.696 | 3.645 |
| MSUNI | 26 | 0.014 | 0.050 | 0.099 | 0.218 | 2.178 |
| SCCAP | 43 | 0.092 | 0.264 | 0.437 | 1.289 | 7.713 |
| SCCON | 28 | 0.042 | 0.108 | 0.328 | 0.505 | 1.550 |
| SCDEL | 35 | 0.013 | 0.066 | 0.156 | 0.317 | 0.856 |
| SCLON | 29 | 0.027 | 0.120 | 0.231 | 0.448 | 1.804 |
| TNCEN | 35 | 0.007 | 0.046 | 0.076 | 0.105 | 0.466 |
| WVAPC | 30 | 0.013 | 0.028 | 0.052 | 0.107 | 0.662 |
| WVGRN | 25 | 0.010 | 0.027 | 0.046 | 0.066 | 0.120 |
| WVNEW | 32 | 0.011 | 0.037 | 0.060 | 0.094 | 0.498 |
| WVWAR | 26 | 0.012 | 0.023 | 0.041 | 0.064 | 0.175 |
| SDAPR | 2 | 0.019 | 0.009 | 0.019 | 0.026 | 0.034 |
| SDBGP | 2 | 0.029 | 0.014 | 0.029 | 0.045 | 0.061 |
| SDBPR | 3 | 0.010 | 0.007 | 0.014 | 0.022 | 0.037 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: K,MG/L

% OF SAMPLES GREATER THAN GIVEN VALUE

| SITE | #PTS | 100% | 75% | 50% | 25% | 0% |
|---|---|---|---|---|---|---|
| ALTAL | 28 | 0.002 | 0.010 | 0.030 | 0.070 | 1.432 |
| ALMOB | 20 | -0.028 | 0.013 | 0.017 | 0.045 | 0.139 |
| DEGEO | 29 | -0.004 | 0.018 | 0.024 | 0.043 | 0.100 |
| DELUM | 37 | 0.000 | 0.014 | 0.025 | 0.057 | 0.194 |
| GADAW | 34 | -0.005 | 0.019 | 0.027 | 0.056 | 0.232 |
| GADUF | 18 | 0.011 | 0.015 | 0.035 | 0.049 | 0.381 |
| GAHIW | 32 | 0.005 | 0.017 | 0.040 | 0.061 | 0.370 |
| GASUM | 39 | 0.001 | 0.012 | 0.019 | 0.032 | 0.267 |
| GAWAY | 18 | 0.007 | 0.021 | 0.045 | 0.067 | 0.187 |
| GABFG | 15 | 0.004 | 0.014 | 0.020 | 0.036 | 0.157 |
| KYGRA | 37 | -0.004 | 0.007 | 0.020 | 0.056 | 0.357 |
| KYMAM | 43 | 0.007 | 0.016 | 0.028 | 0.071 | 0.663 |
| LACAR | 32 | -0.006 | 0.018 | 0.035 | 0.046 | 0.465 |
| LACHS | 27 | 0.007 | 0.029 | 0.054 | 0.085 | 0.334 |
| LAROS | 44 | 0.006 | 0.013 | 0.025 | 0.058 | 0.296 |
| MDRGP | 30 | -0.005 | 0.006 | 0.009 | 0.021 | 0.111 |
| MD3EC | 34 | 0.001 | 0.015 | 0.025 | 0.058 | 0.201 |
| MSUNI | 26 | 0.005 | 0.023 | 0.037 | 0.060 | 1.320 |
| SCCAP | 43 | 0.004 | 0.022 | 0.039 | 0.116 | 0.730 |
| SCCON | 28 | 0.019 | 0.032 | 0.054 | 0.131 | 0.778 |
| SCDEL | 35 | 0.007 | 0.018 | 0.032 | 0.060 | 0.458 |
| SCLON | 29 | 0.015 | 0.045 | 0.082 | 0.133 | 0.633 |
| TNCEN | 35 | -0.007 | 0.012 | 0.035 | 0.075 | 1.950 |
| WVAPC | 30 | -0.007 | 0.008 | 0.021 | 0.031 | 0.114 |
| WVGRN | 25 | -0.007 | 0.012 | 0.025 | 0.041 | 0.110 |
| WVNEW | 32 | 0.011 | 0.019 | 0.031 | 0.082 | 0.169 |
| WVWAR | 26 | -0.006 | 0.012 | 0.020 | 0.031 | 0.886 |
| SDAPR | 2 | 0.007 | 0.003 | 0.007 | 0.023 | 0.039 |
| SDBGP | 2 | 0.019 | 0.009 | 0.019 | 0.032 | 0.046 |
| SDBPR | 3 | -0.005 | -0.004 | 0.009 | 0.027 | 0.036 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: CA,MG/L

| SITE | #PTS | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| | | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | -0.01 | 0.02 | 0.09 | 0.24 | 0.55 |
| ALMOB | 20 | -0.24 | 0.03 | 0.08 | 0.15 | 0.46 |
| DEGEO | 29 | -0.04 | 0.02 | 0.08 | 0.13 | 0.43 |
| DELUM | 37 | -0.05 | 0.03 | 0.09 | 0.25 | 1.21 |
| GADAW | 34 | -0.02 | 0.03 | 0.05 | 0.17 | 0.58 |
| GADUF | 18 | -0.04 | 0.02 | 0.07 | 0.13 | 1.11 |
| GAHIW | 32 | -0.04 | 0.01 | 0.08 | 0.16 | 1.02 |
| GASUM | 39 | -0.01 | 0.03 | 0.09 | 0.15 | 0.59 |
| GAWAY | 18 | -0.03 | 0.04 | 0.08 | 0.18 | 0.41 |
| GABFG | 15 | -0.02 | 0.01 | 0.04 | 0.08 | 0.20 |
| KYGRA | 37 | -0.05 | 0.05 | 0.13 | 0.27 | 1.56 |
| KYMAM | 43 | 0.00 | 0.07 | 0.14 | 0.24 | 3.09 |
| LACAR | 32 | -0.03 | 0.04 | 0.11 | 0.16 | 1.25 |
| LACHS | 27 | 0.01 | 0.06 | 0.13 | 0.25 | 0.72 |
| LAROS | 44 | 0.00 | 0.03 | 0.08 | 0.25 | 0.81 |
| MDRGP | 30 | -0.04 | 0.03 | 0.07 | 0.13 | 0.54 |
| MD3EC | 34 | -0.07 | 0.04 | 0.09 | 0.14 | 1.34 |
| MSUNI | 26 | 0.00 | 0.05 | 0.13 | 0.20 | 1.11 |
| SCCAP | 43 | -0.06 | 0.02 | 0.12 | 0.22 | 2.04 |
| SCCON | 28 | -0.04 | 0.03 | 0.08 | 0.16 | 1.02 |
| SCDEL | 35 | -0.05 | 0.03 | 0.07 | 0.17 | 1.12 |
| SCLON | 29 | 0.02 | 0.07 | 0.13 | 0.30 | 0.70 |
| TNCEN | 35 | 0.01 | 0.07 | 0.16 | 0.30 | 1.25 |
| WVAPC | 30 | 0.03 | 0.06 | 0.14 | 0.22 | 0.89 |
| WVGRN | 25 | -0.02 | 0.05 | 0.09 | 0.14 | 0.39 |
| WVNEW | 32 | 0.04 | 0.11 | 0.18 | 0.38 | 0.82 |
| WVWAR | 26 | 0.03 | 0.09 | 0.16 | 0.28 | 1.11 |
| SDAPR | 2 | 0.03 | 0.02 | 0.03 | 0.30 | 0.57 |
| SDBGP | 2 | 0.23 | 0.11 | 0.23 | 0.43 | 0.64 |
| SDBPR | 3 | 0.03 | 0.03 | 0.05 | 0.13 | 0.30 |

## TABLE 3-1 (CONTINUED)

## CUMULATIVE FREQUENCY OF OCCURRENCE: MG,MG/L

| SITE | #PTS | % OF SAMPLES GREATER THAN GIVEN VALUE | | | | |
|---|---|---|---|---|---|---|
| | | 100% | 75% | 50% | 25% | 0% |
| ALTAL | 28 | 0.003 | 0.012 | 0.034 | 0.078 | 2.618 |
| ALMOB | 20 | 0.004 | 0.025 | 0.039 | 0.089 | 0.251 |
| DEGEO | 29 | 0.004 | 0.017 | 0.029 | 0.046 | 0.132 |
| DELUM | 37 | 0.000 | 0.015 | 0.034 | 0.089 | 0.247 |
| GADAW | 34 | 0.003 | 0.008 | 0.020 | 0.032 | 0.279 |
| GADUF | 18 | 0.003 | 0.007 | 0.020 | 0.059 | 0.255 |
| GAHIW | 32 | 0.000 | 0.010 | 0.021 | 0.043 | 0.136 |
| GASUM | 39 | 0.004 | 0.009 | 0.018 | 0.029 | 0.141 |
| GAWAY | 18 | 0.005 | 0.027 | 0.035 | 0.058 | 0.095 |
| GABFG | 15 | 0.003 | 0.007 | 0.016 | 0.040 | 0.248 |
| KYGRA | 37 | 0.000 | 0.007 | 0.017 | 0.038 | 1.237 |
| KYMAM | 43 | 0.000 | 0.008 | 0.020 | 0.036 | 0.574 |
| LACAR | 32 | -0.002 | 0.017 | 0.032 | 0.066 | 0.620 |
| LACHS | 27 | 0.009 | 0.017 | 0.037 | 0.070 | 0.358 |
| LAROS | 44 | 0.001 | 0.014 | 0.029 | 0.081 | 0.460 |
| MDRGP | 30 | -0.003 | 0.004 | 0.010 | 0.016 | 0.090 |
| MD3EC | 34 | -0.007 | 0.023 | 0.036 | 0.085 | 0.420 |
| MSUNI | 26 | 0.001 | 0.012 | 0.022 | 0.039 | 5.512 |
| SCCAP | 43 | 0.007 | 0.033 | 0.058 | 0.167 | 0.959 |
| SCCON | 28 | 0.003 | 0.023 | 0.047 | 0.066 | 0.228 |
| SCDEL | 35 | -0.001 | 0.012 | 0.025 | 0.046 | 0.198 |
| SCLON | 29 | 0.007 | 0.015 | 0.035 | 0.072 | 0.223 |
| TNCEN | 35 | 0.001 | 0.007 | 0.020 | 0.043 | 0.224 |
| WVAPC | 30 | 0.005 | 0.011 | 0.020 | 0.032 | 0.136 |
| WVGRN | 25 | -0.003 | 0.007 | 0.011 | 0.021 | 0.073 |
| WVNEW | 32 | 0.009 | 0.017 | 0.030 | 0.058 | 0.147 |
| WVWAR | 26 | 0.006 | 0.014 | 0.025 | 0.044 | 0.204 |
| SDAPR | 2 | 0.004 | 0.002 | 0.004 | 0.026 | 0.048 |
| SDBGP | 2 | 0.023 | 0.012 | 0.023 | 0.033 | 0.043 |
| SDBPR | 3 | 0.005 | 0.004 | 0.010 | 0.025 | 0.054 |

## TABLE 3-2

## PRECIPITATION WEIGHTED MEAN DATA

| SITE | #PTS | PPTN<br>CM | PH | COND<br>UMHOS/CM | F<br>MG/L | CL<br>MG/L | NO2<br>MG/L | PO4<br>MG/L | BR<br>MG/L | NO3<br>MG/L | SO4<br>MG/L | NH4<br>MG/L | NA<br>MG/L | K<br>MG/L | CA<br>MG/L | MG<br>MG/L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALTAL | 28 | 91.92 | 4.67 | 9.9 | 0.005 | 0.238 | -0.010 | 0.03 | -0.023 | 0.64 | 1.12 | 0.14 | 0.137 | 0.023 | 0.07 | 0.021 |
| ALMOB | 20 | 60.62 | 4.54 | 15.0 | 0.005 | 0.653 | -0.008 | 0.02 | -0.010 | 0.79 | 1.49 | 0.13 | 0.381 | 0.027 | 0.08 | 0.048 |
| DEGEO | 29 | 73.66 | 4.49 | 17.8 | 0.006 | 0.576 | -0.011 | 0.02 | -0.003 | 1.00 | 1.92 | 0.35 | 0.312 | 0.027 | 0.06 | 0.043 |
| DELUM | 36 | 86.30 | 4.21 | 29.5 | 0.010 | 0.414 | -0.008 | 0.01 | 0.002 | 1.61 | 2.88 | 0.30 | 0.207 | 0.024 | 0.08 | 0.036 |
| GADAW | 34 | 99.63 | 4.47 | 16.6 | 0.006 | 0.207 | -0.006 | 0.02 | -0.013 | 0.99 | 1.87 | 0.31 | 0.105 | 0.022 | 0.06 | 0.016 |
| GADUF | 18 | 39.60 | 4.51 | 14.7 | 0.008 | 0.199 | -0.017 | 0.01 | -0.008 | 0.91 | 1.51 | 0.19 | 0.111 | 0.029 | 0.05 | 0.016 |
| GANIW | 32 | 110.60 | 4.50 | 14.5 | 0.005 | 0.193 | -0.010 | 0.01 | -0.029 | 0.85 | 1.57 | 0.17 | 0.103 | 0.037 | 0.06 | 0.016 |
| GASUM | 39 | 109.40 | 4.31 | 23.1 | 0.015 | 0.245 | -0.015 | -0.01 | -0.025 | 1.16 | 2.44 | 0.25 | 0.118 | 0.022 | 0.08 | 0.018 |
| GAWAY | 18 | 61.87 | 4.62 | 11.9 | 0.003 | 0.379 | -0.009 | 0.00 | -0.026 | 0.75 | 1.14 | 0.14 | 0.223 | 0.047 | 0.06 | 0.030 |
| GABFG | 15 | 38.14 | 4.52 | 13.3 | 0.004 | 0.263 | -0.001 | 0.00 | 0.005 | 0.84 | 1.33 | 0.14 | 0.140 | 0.038 | 0.05 | 0.024 |
| KYGRA | 37 | 69.34 | 4.23 | 28.6 | 0.013 | 0.130 | -0.009 | 0.02 | -0.035 | 1.54 | 3.11 | 0.36 | 0.060 | 0.031 | 0.14 | 0.021 |
| KYMAM | 42 | 87.33 | 4.40 | 18.5 | 0.011 | 0.122 | -0.007 | 0.02 | -0.016 | 1.07 | 2.00 | 0.20 | 0.064 | 0.022 | 0.11 | 0.015 |
| LACAR | 32 | 93.27 | 4.85 | 12.5 | 0.035 | 0.487 | -0.008 | 0.00 | -0.029 | 0.90 | 1.71 | 0.66 | 0.267 | 0.037 | 0.10 | 0.036 |
| LACHS | 27 | 81.60 | 4.37 | 8.8 | 0.003 | 0.317 | -0.009 | 0.03 | -0.014 | 0.74 | 0.97 | 0.23 | 0.186 | 0.034 | 0.09 | 0.028 |
| LAROS | 44 | 115.55 | 4.80 | 8.5 | 0.006 | 0.327 | -0.010 | 0.02 | -0.023 | 0.63 | 0.87 | 0.19 | 0.180 | 0.020 | 0.06 | 0.025 |
| MDRGP | 30 | 49.92 | 4.16 | 31.3 | 0.012 | 0.113 | -0.007 | 0.02 | 0.083 | 1.85 | 2.87 | 0.28 | 0.039 | 0.014 | 0.08 | 0.011 |
| MD3EC | 33 | 70.08 | 4.32 | 24.8 | 0.007 | 0.896 | -0.008 | 0.01 | 0.005 | 1.38 | 2.09 | 0.19 | 0.508 | 0.031 | 0.06 | 0.061 |
| MSUNI | 26 | 85.51 | 4.64 | 11.5 | 0.007 | 0.198 | -0.007 | 0.01 | 0.001 | 0.80 | 1.28 | 0.21 | 0.108 | 0.033 | 0.09 | 0.023 |
| SCCAP | 42 | 118.36 | 4.51 | 17.7 | 0.007 | 1.120 | -0.009 | 0.02 | -0.011 | 0.78 | 1.50 | 0.11 | 0.613 | 0.037 | 0.06 | 0.078 |
| SCCON | 28 | 56.86 | 4.55 | 14.3 | 0.004 | 0.425 | -0.005 | 0.03 | -0.028 | 0.84 | 1.46 | 0.16 | 0.234 | 0.055 | 0.07 | 0.040 |
| SCDEL | 35 | 77.66 | 4.39 | 18.7 | 0.012 | 0.252 | -0.003 | 0.03 | -0.014 | 1.13 | 1.81 | 0.21 | 0.139 | 0.029 | 0.05 | 0.018 |
| SCLON | 29 | 15.21 | 4.28 | 26.7 | 0.020 | 0.417 | -0.009 | 0.03 | -0.020 | 1.48 | 2.80 | 0.32 | 0.249 | 0.068 | 0.11 | 0.035 |
| TNCEN | 35 | 94.70 | 4.44 | 17.1 | 0.008 | 0.122 | -0.004 | 0.02 | -0.010 | 1.03 | 1.87 | 0.21 | 0.061 | 0.061 | 0.11 | 0.016 |
| WVAPC | 30 | 91.93 | 4.21 | 29.2 | 0.022 | 0.232 | -0.002 | 0.02 | 0.008 | 1.55 | 3.09 | 0.36 | 0.074 | 0.021 | 0.15 | 0.024 |
| WVGRN | 25 | 51.56 | 4.36 | 20.0 | 0.007 | 0.096 | -0.005 | 0.01 | -0.018 | 1.31 | 1.98 | 0.23 | 0.046 | 0.033 | 0.09 | 0.013 |
| WVNEW | 32 | 66.48 | 4.02 | 45.0 | 0.049 | 0.448 | -0.007 | 0.02 | 0.022 | 1.82 | 4.42 | 0.30 | 0.058 | 0.035 | 0.20 | 0.033 |
| WVWAR | 26 | 58.63 | 4.00 | 46.3 | 0.035 | 0.277 | -0.002 | 0.02 | 0.014 | 1.99 | 4.62 | 0.29 | 0.054 | 0.026 | 0.19 | 0.033 |
| SDAPR | 2 | 0.28 | 5.25 | 5.8 | -0.003 | 0.059 | 0.022 | 0.06 | -0.013 | 1.24 | 0.59 | 0.20 | 0.027 | 0.024 | 0.33 | 0.028 |
| SDBGP | 2 | 0.53 | 5.73 | 6.4 | 0.007 | 0.059 | 0.048 | 0.05 | -0.032 | 1.59 | 0.63 | 0.61 | 0.032 | 0.021 | 0.27 | 0.025 |
| SDBPR | 3 | 2.21 | 5.25 | 5.8 | 0.006 | 0.019 | -0.019 | 0.05 | -0.064 | 1.07 | 0.70 | 0.45 | 0.012 | 0.023 | 0.09 | 0.018 |

## 4.0 COMPARISON OF FIELD AND LABORATORY MEASUREMENTS

Presented in Figure 4-1 are plots comparing field and laboratory pH and conductivity measurements for each site for samples numbered 1-2600. The 1986 samples have ID number 1532-2568. The sample number is plotted on the x axis and (field measured value - lab measured value) is plotted on the yaxis. The perfect agreement zero difference line is also plotted. The y axis limits for pH are -0.5 to +0.5. The y axis limits for conductivity are -10.0 to +10.0. Values greater than the limits are plotted at the limits.

In order to give a comparison of pH for fairly stable samples only, samples of pH greater than 4.8 were excluded from the pH plots.

Procedures are employed to insure good field pH and conductivity measurements. Once every two months, field supplies are sent out, including 500 ml of pH reference solution (pH 4.30) and 500 ml of conductivity reference solution (73.9 umhos/cm). The site operators are instructed to calibrate their meters as indicated by their state agency and to analyze the reference solutions just as they do a sample.

In addition, each state agency is sent a monthly report giving the average difference of field and laboratory pH and conductivity measurements.

Figure 4-1

pH and Conductivity Plots of (Field - Lab) Data vs. Time

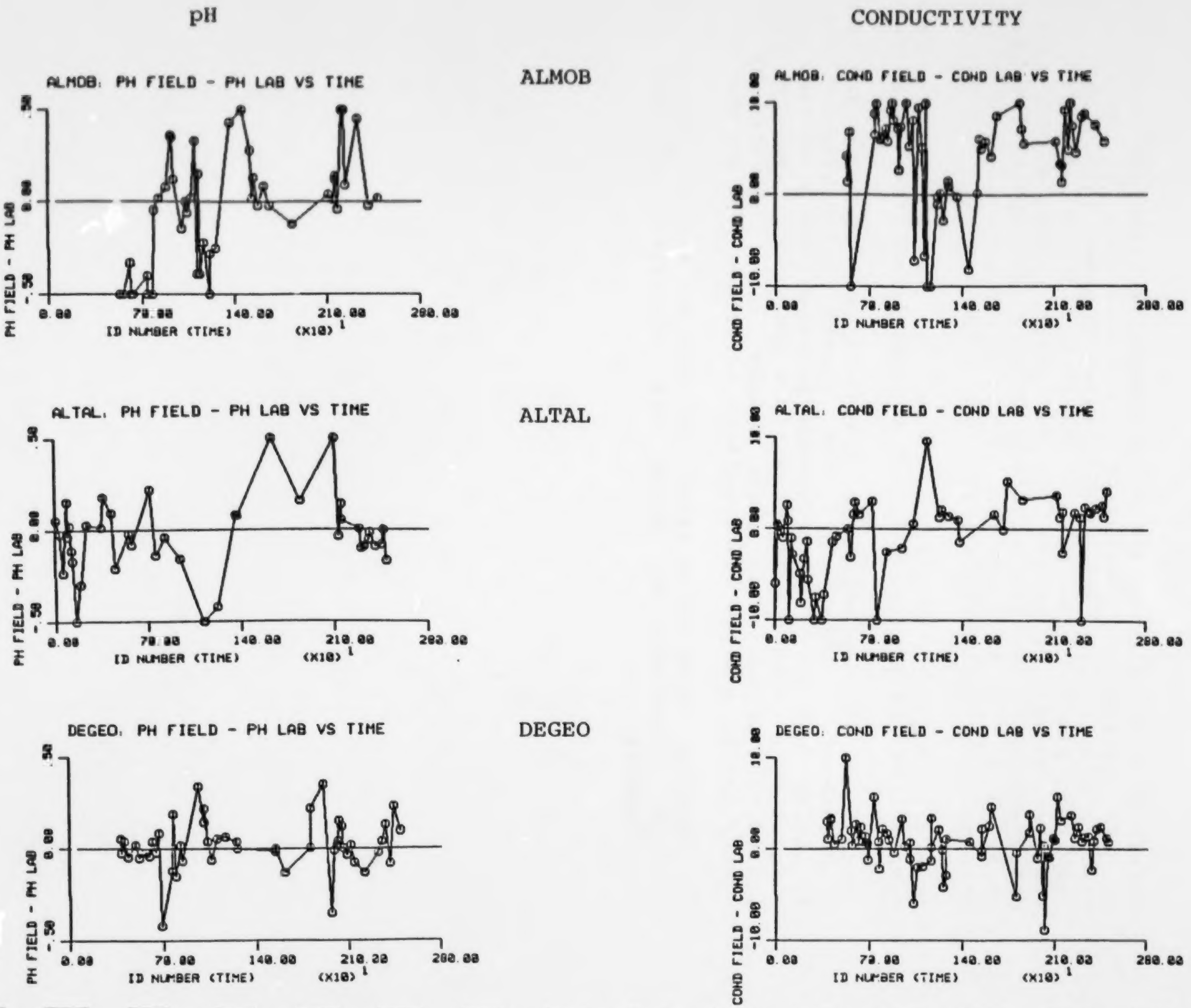
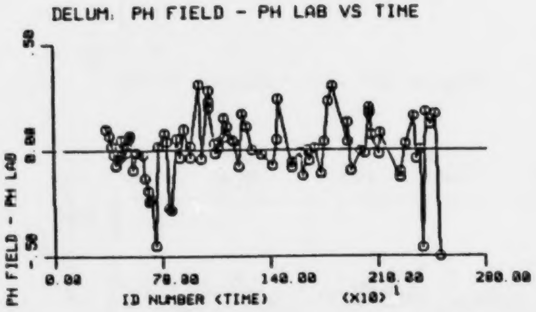


Figure 4-1 (continued)

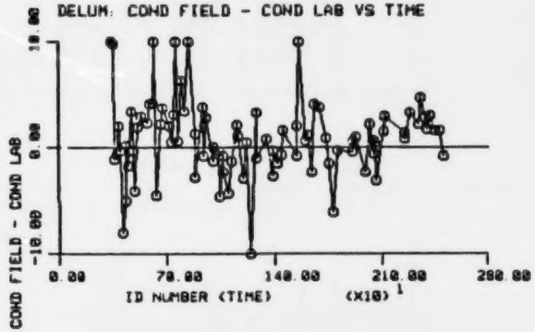
pH and Conductivity Plots of (Field - Lab) Data vs. Time

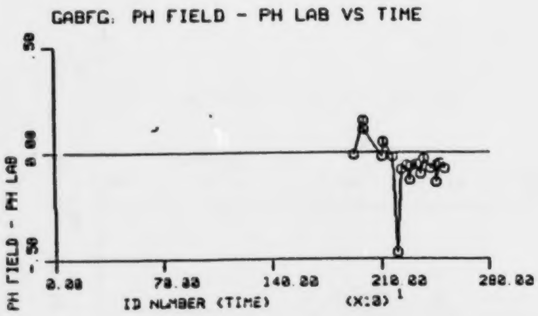
pH

CONDUCTIVITY

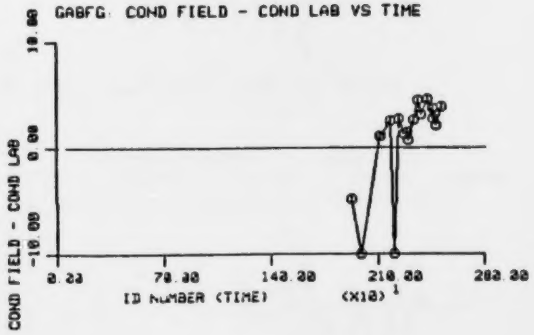


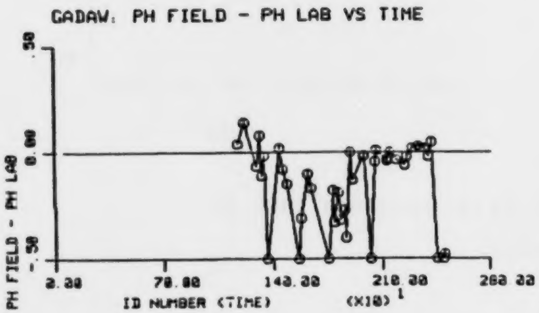
DELUM





GABFG





GADAW

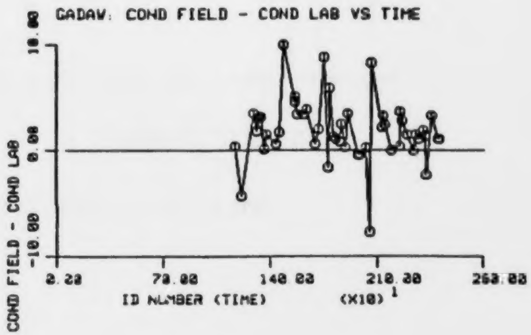


Figure 4-1 (continued)

pH and Conductivity Plots of (Field - Lab) Data vs. Time

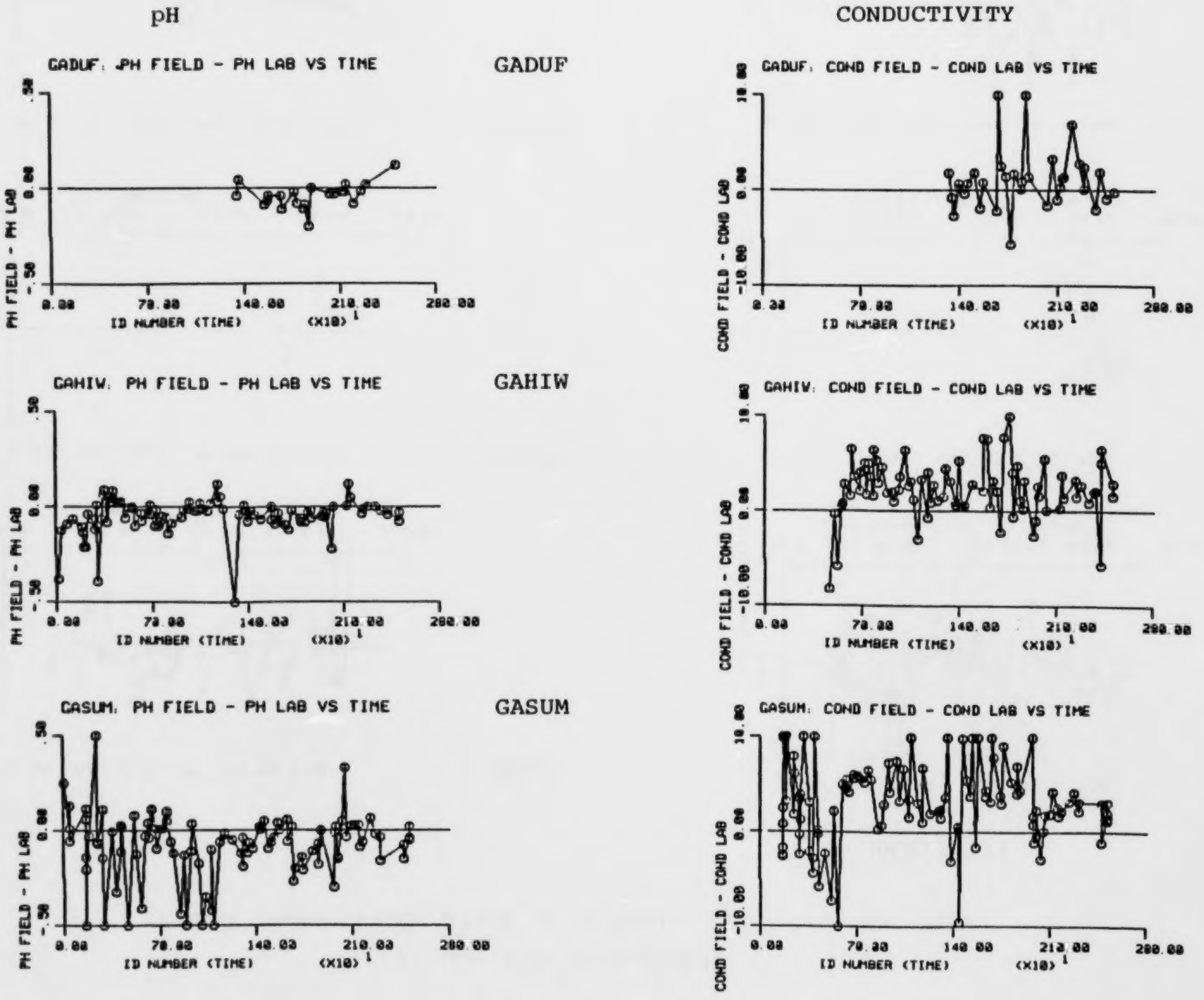


Figure 4-1 (continued)

pH and Conductivity Plots of (Field - Lab) Data vs. Time

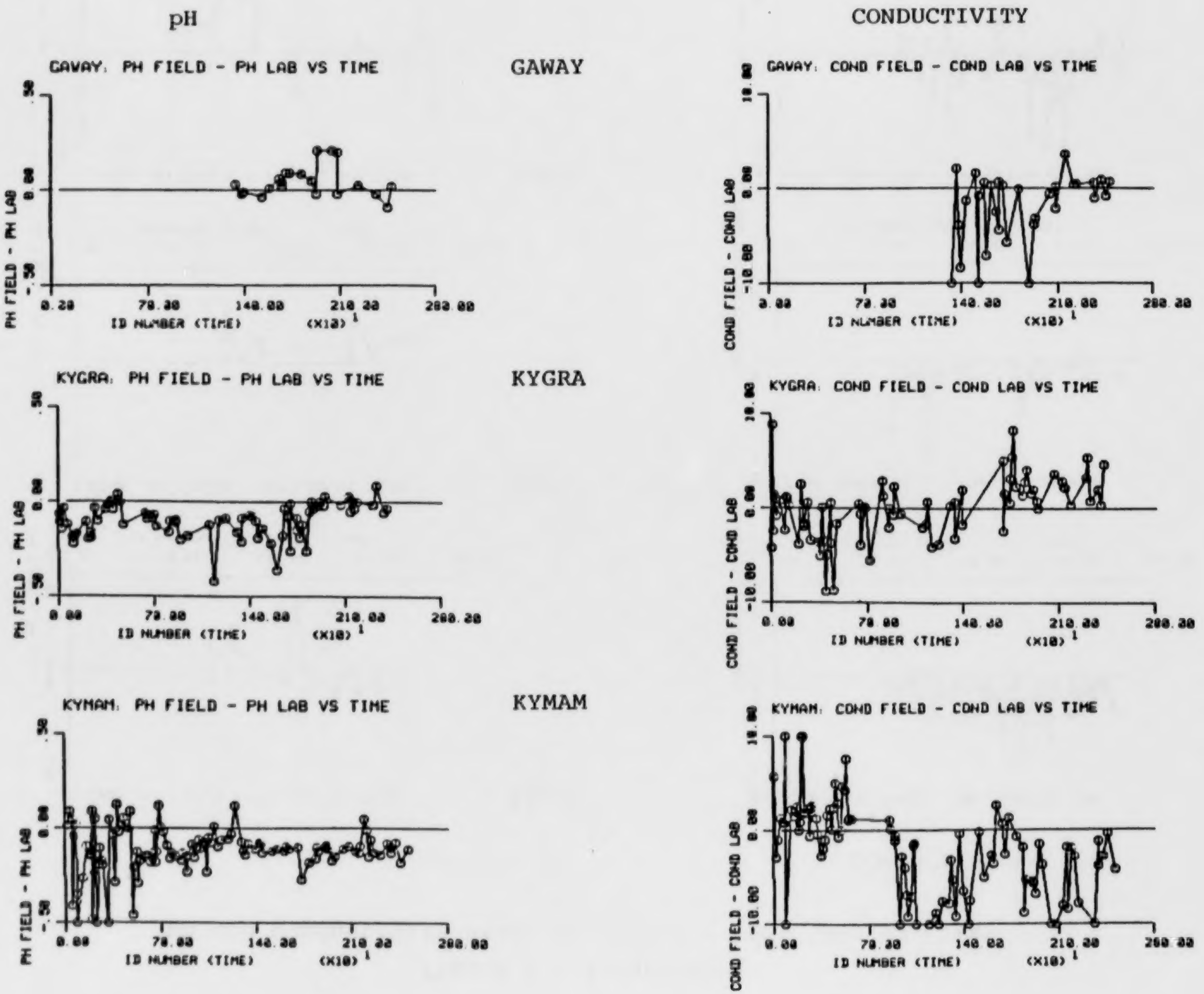


Figure 4-1 (continued)

pH and Conductivity Plots of (Field - Lab) Data vs. Time

pH

CONDUCTIVITY

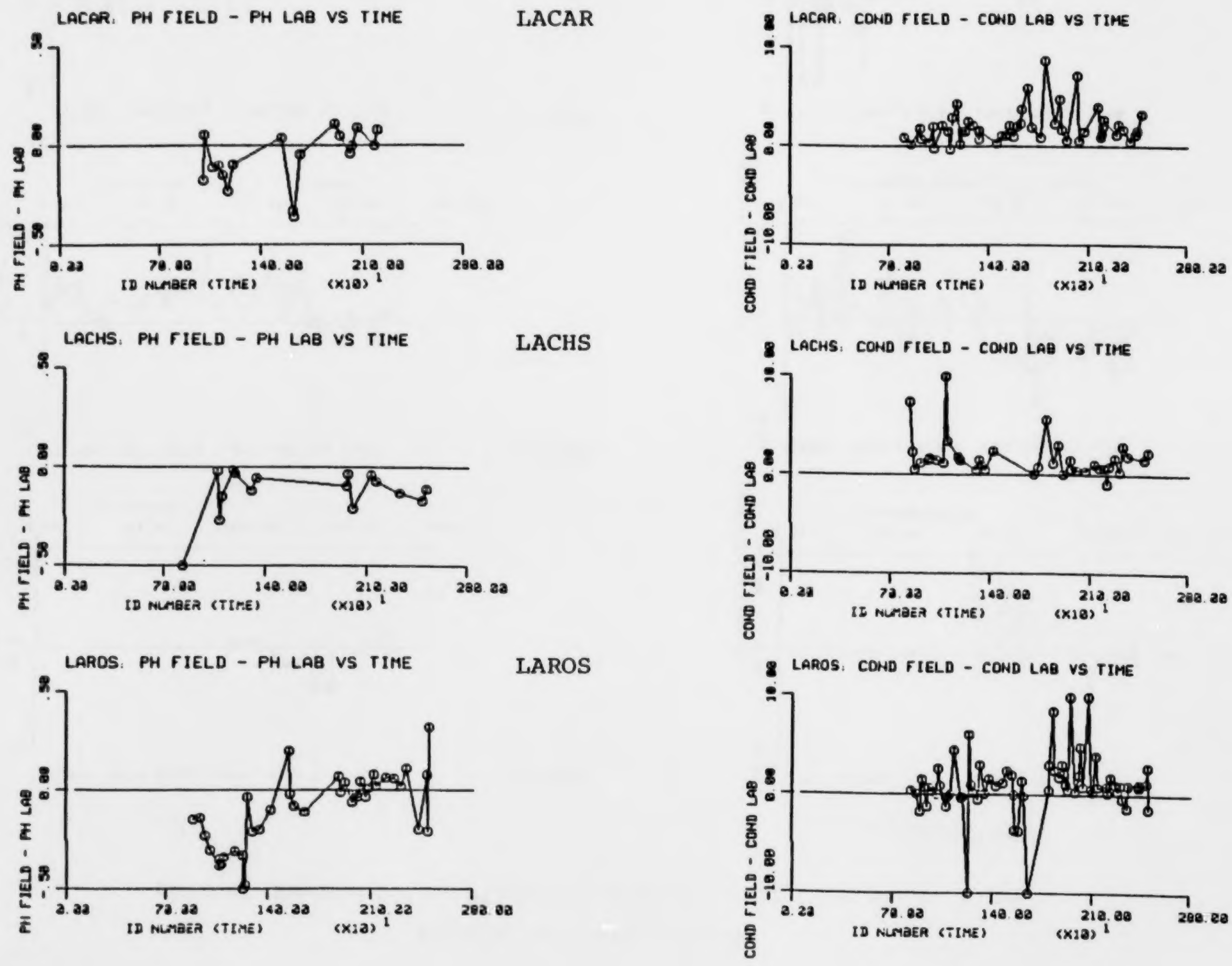


Figure 4-1 (continued)

pH and Conductivity Plots of (Field - Lab) Data vs. Time

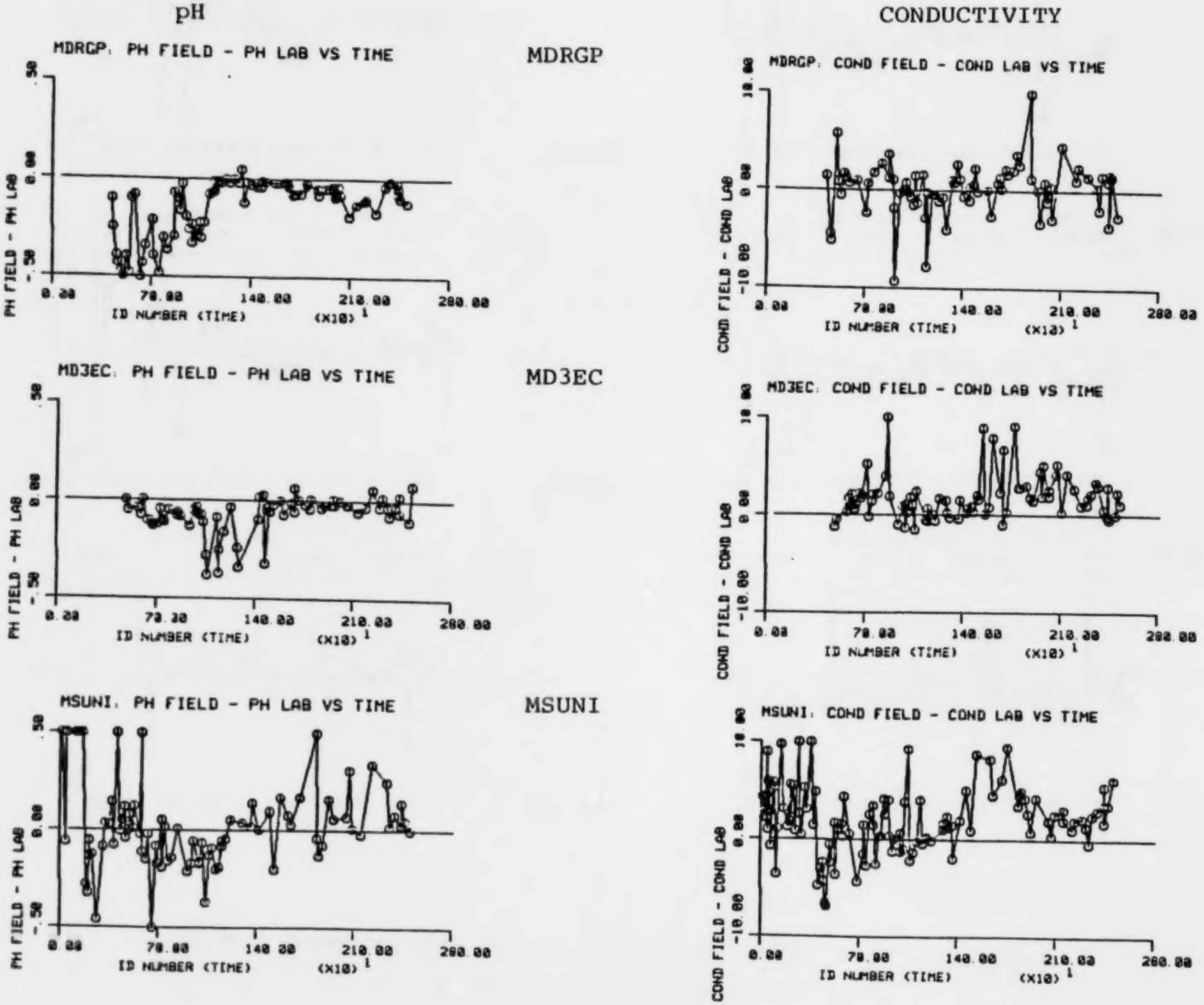


Figure 4-1 (continued)

pH and Conductivity Plots of (Field - Lab) Data vs. Time

pH

CONDUCTIVITY

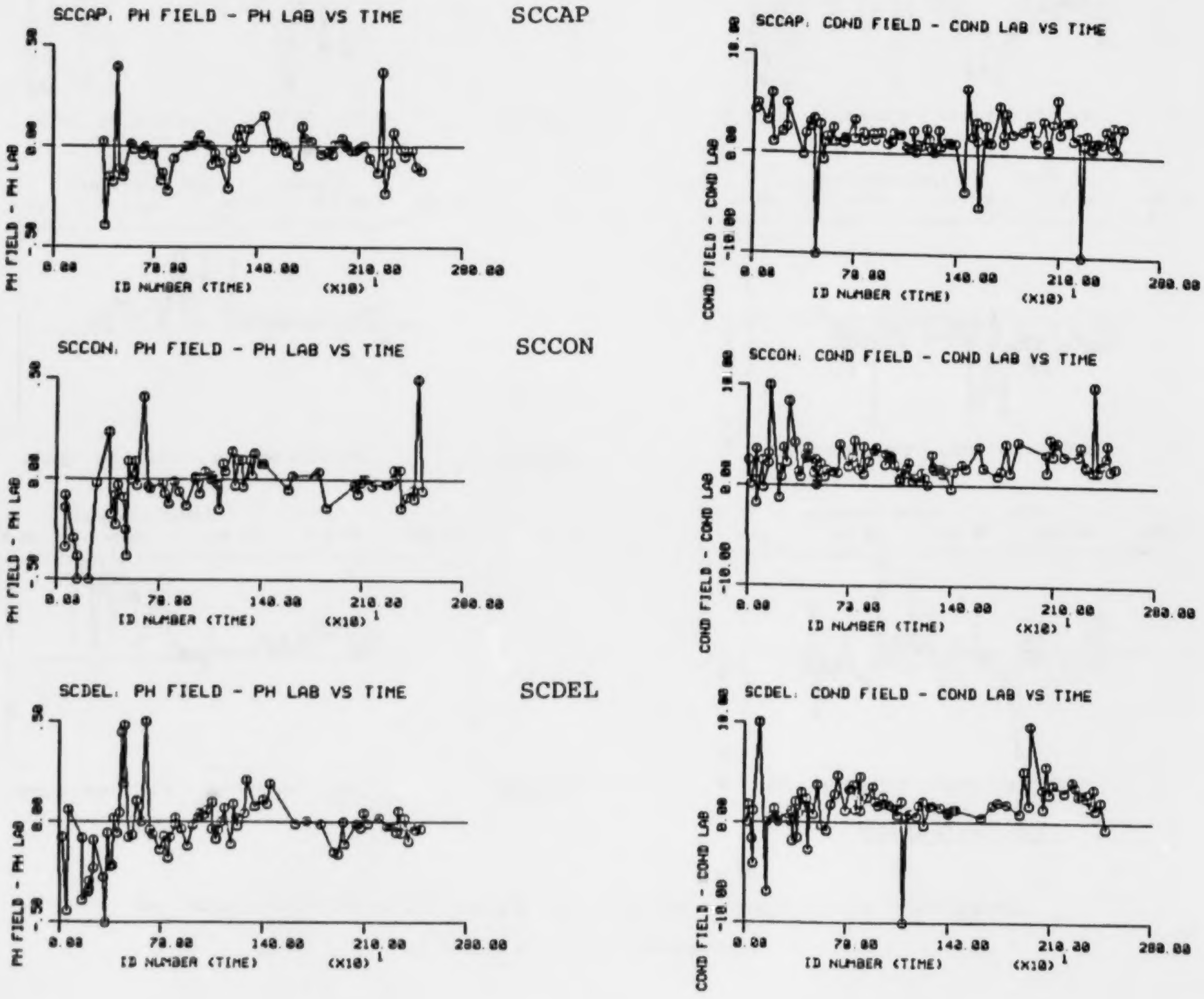
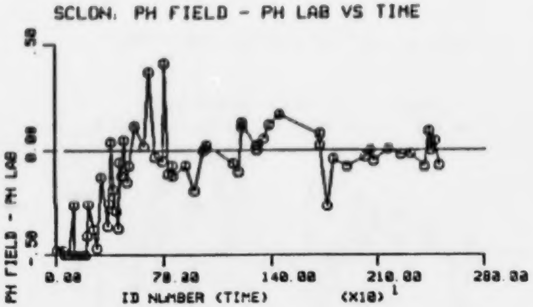


Figure 4-1 (continued)

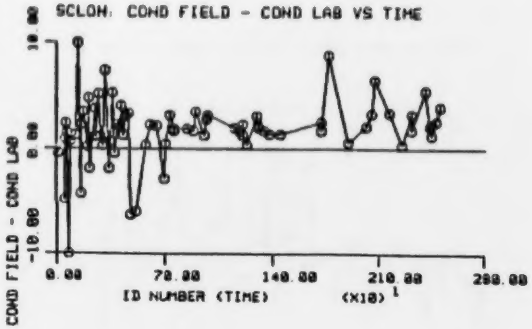
pH and Conductivity Plots of (Field - Lab) Data vs. Time

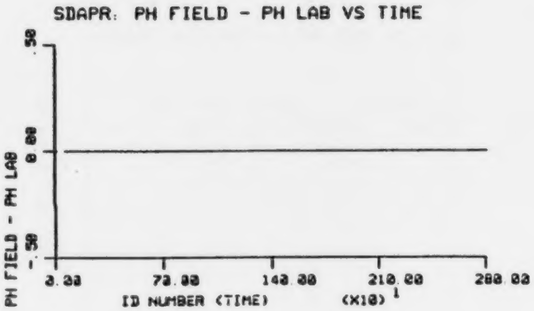
pH

CONDUCTIVITY

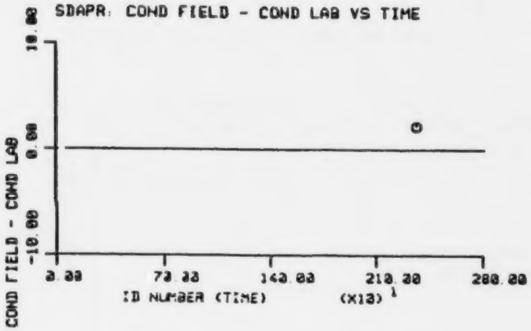


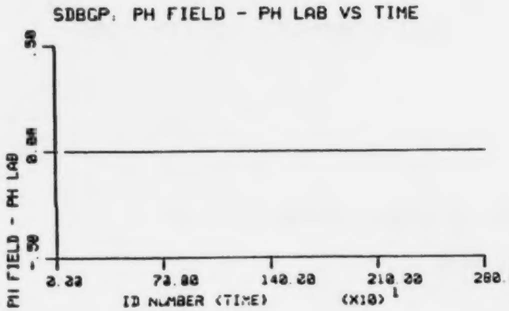
SCLON





SDAPR





SDBGP

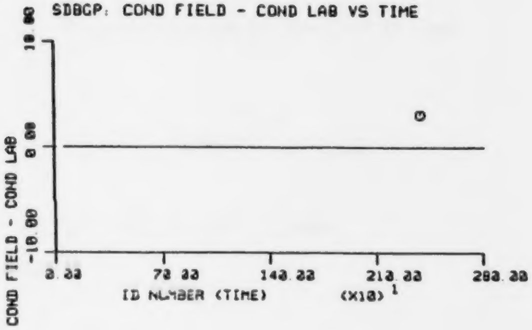


Figure 4-1 (continued)

pH and Conductivity Plots of (Field - Lab) Data vs. Time

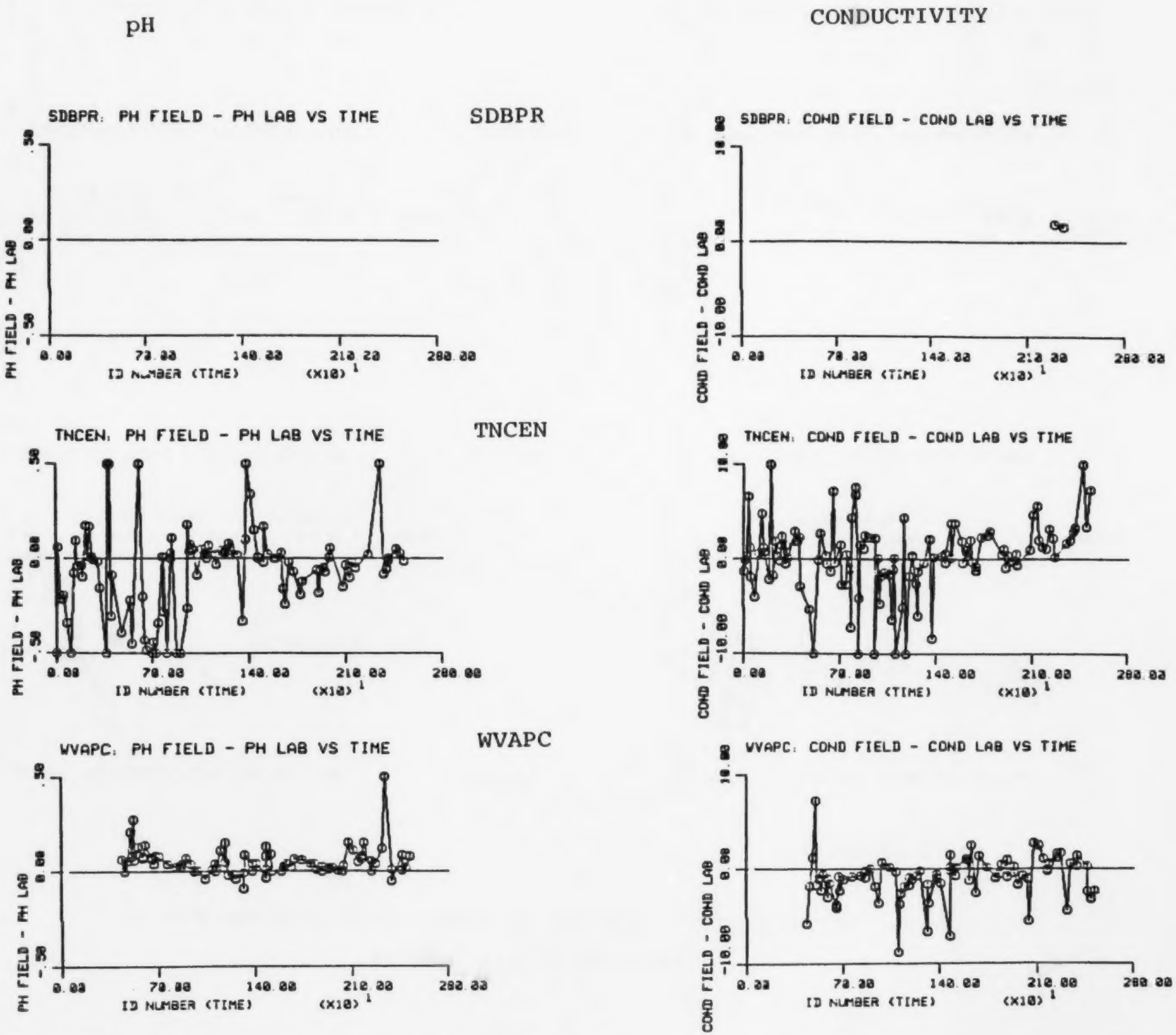
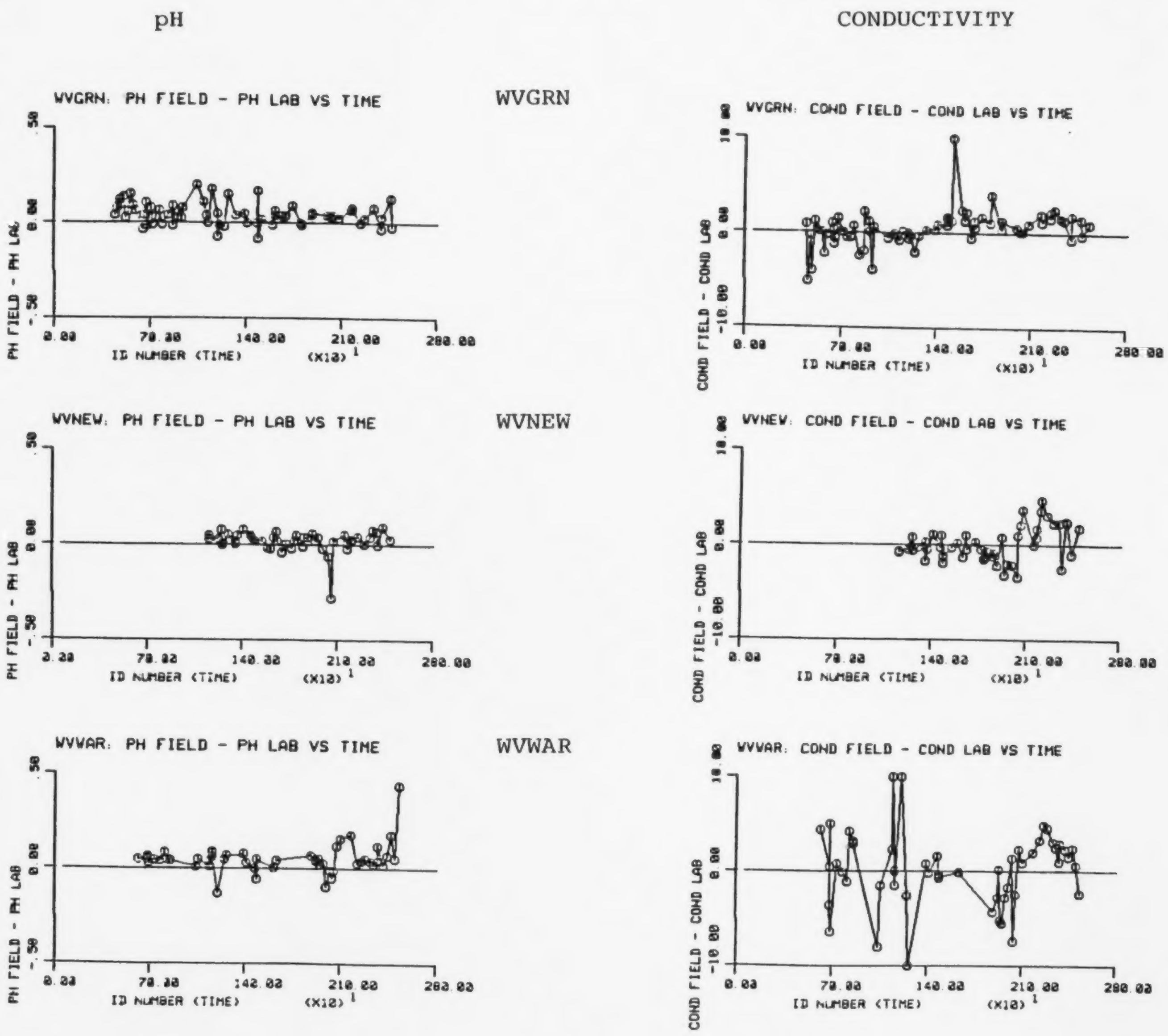


Figure 4-1 (continued)

pH and Conductivity Plots of (Field - Lab) Data vs. Time



# APPENDIX A

## QUALITY CONTROL INFORMATION

## JAN '86 - DEC '86

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Quality control duplicate and spike samples were included with all analyses performed by GGC. The duplicate samples were actual samples randomly chosen for duplicate analysis by each analyst. The spike samples were actually calibration standards prepared from separate stock solutions by someone other than the analyst. The spike concentrations were not known by the analyst.

Quality control plots for each analysis are included in this Appendix. Control limits obtained from these plots are given in Table A-1. These control limits will be used in the future to evaluate each analytical run and make decisions on reanalysis.

An estimate of detection limits can be obtained by multiplying the UCL for the lowest range of each analyte by (2/3.27) = (.61). This is two times the average difference on the lowest analytical range - the concentration at which the data should be known to +-50%.

The Julian date of analysis is given above each data point on each plot. The Julian dates of analyses vary on each plot, but range from approximately '86 030 on the left to '87 042 on the right.

## TABLE A-1

PROJECT EPAQC 10-APR-87
UPDATE OF QC CONTROL LIMITS

| ANALYTE | | CONC'N RANGE UG/ML | # POINTS | UWL UG/ML | UCL UG/ML | PAGE |
|---|---|---|---|---|---|---|
| PH | DUP | 0-5 | 106 | .0222585 | .0289981 | A4 |
| PH | DUP | 5-7 | 11 | .118654 | .154582 | |
| GRAN | DUP | 0-100 | 93 | 3.32993 | 4.3382 | A6 |
| GRAN | DUP | 100->100 | 13 | 4.81727 | 6.27589 | |
| GRAN | SPK | 0-100 | 138 | 2.32084 | 3.02357 | |
| GRAN | SPK | 100->100 | 130 | 3.87101 | 5.0431 | |
| COND | DUP | 0-36.8 | 103 | .46457 | .605236 | A10 |
| COND | DUP | 36.8-75 | 19 | 1.1075 | 1.44284 | |
| COND | DUP | 75-144.7 | 1 | .200805 | .261606 | |
| COND | SPK | 0-36.8 | 94 | .348257 | .453706 | |
| COND | SPK | 36.8-75 | 91 | 1.31473 | 1.71282 | |
| COND | SPK | 75-144.7 | 14 | 4.46438 | 5.81615 | |
| NH4 | DUP | 0-.248 | 62 | .0108051 | .0140768 | A15 |
| NH4 | DUP | .248-.98 | 46 | .0110658 | .0144164 | |
| NH4 | DUP | .98-2.9 | 8 | .0122989 | .0160229 | |
| NH4 | SPK | .248-.98 | 115 | .0205143 | .0267259 | |
| NH4 | SPK | .98-2.9 | 120 | .0445462 | .0580343 | |
| F | DUP | 0-.099 | 74 | 3.44616E-03 | 4.48962E-03 | A20 |
| F | SPK | 0-.099 | 99 | 3.73711E-03 | 4.86867E-03 | |
| F | SPK | .099-.984 | 110 | .0150805 | .0196468 | |
| F | SPK | .984-5.66 | 94 | .100576 | .13103 | |
| CL | DUP | 0-.198 | 47 | 7.07607E-03 | 9.21862E-03 | A24 |
| CL | DUP | .198-1.96 | 50 | 6.97780E-03 | 9.09060E-03 | |
| CL | DUP | 1.96-11.3 | 5 | .0505514 | .0658577 | |
| CL | SPK | 0-.198 | 95 | 7.65683E-03 | 9.97523E-03 | |
| CL | SPK | .198-1.96 | 111 | .0404743 | .0527295 | |
| CL | SPK | 1.96-11.3 | 96 | .215708 | .281022 | |
| NO2 | DUP | 0-.371 | 9 | 2.37056E-03 | 3.08833E-03 | A30 |
| PO4 | DUP | 0-.99 | 58 | .0207897 | .0270846 | A31 |
| PO4 | SPK | 0-.99 | 98 | .0851889 | .110983 | |
| PO4 | SPK | .99-9.84 | 101 | .261634 | .340854 | |
| PO4 | SPK | 9.84-56.6 | 96 | .840334 | 1.09478 | |
| BR | DUP | 0-.99 | 12 | .0167961 | .0218818 | A35 |
| NO3 | DUP | 0-.99 | 53 | .0185408 | .0241548 | A36 |
| NO3 | DUP | .99-9.84 | 48 | .0308626 | .0402074 | |
| NO3 | SPK | 0-.99 | 97 | .0267716 | .0348778 | |
| NO3 | SPK | .99-9.84 | 110 | .21283 | .277272 | |
| NO3 | SPK | 9.84-56.6 | 95 | 1.00272 | 1.30633 | |

## TABLE A-1 (CONTINUED)

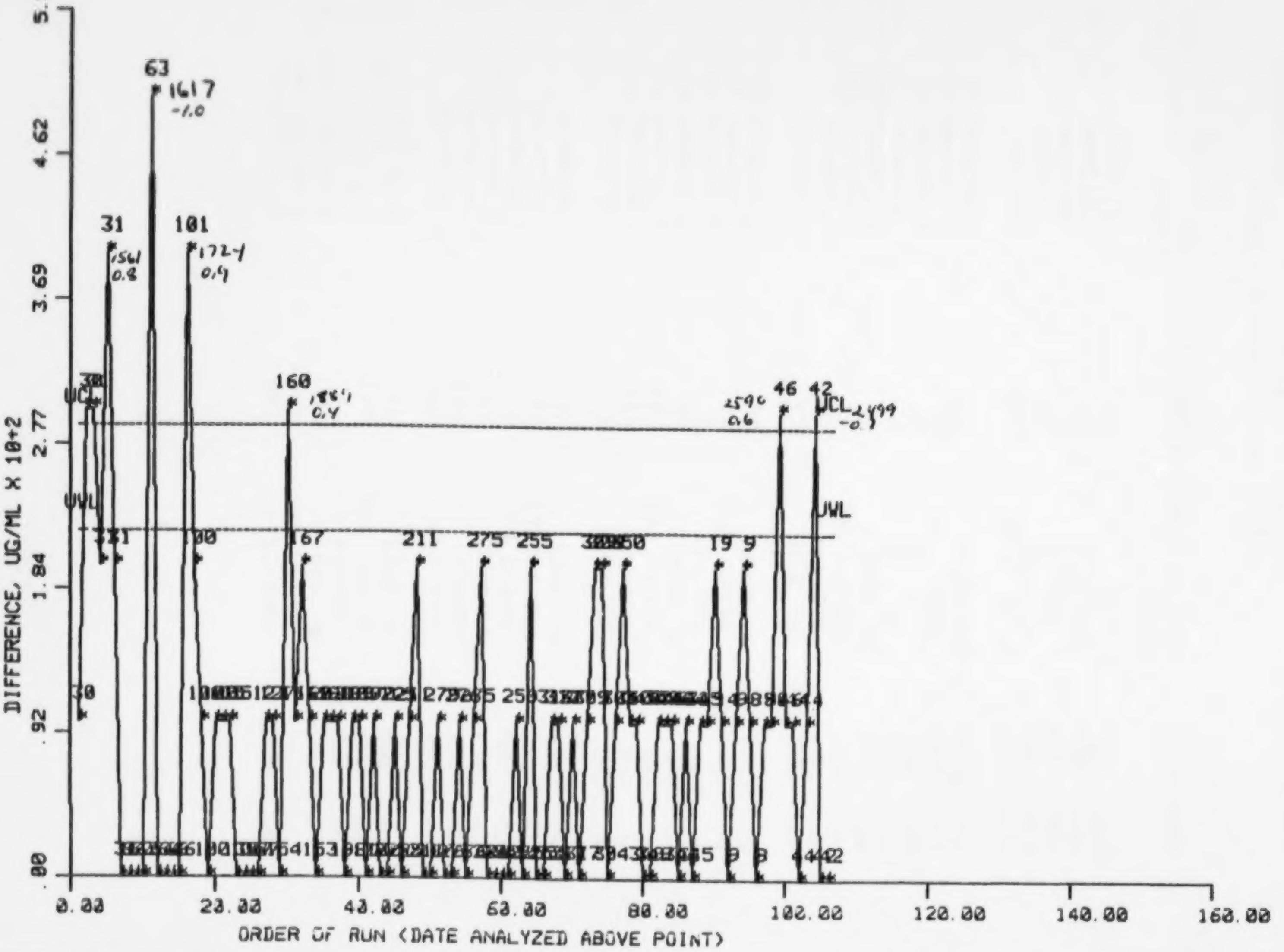
PROJECT EPAQC 10-APR-87
UPDATE OF QC CONTROL LIMITS

| ANALYTE | | CONC'N RANGE UG/ML | # POINTS | UWL UG/ML | UCL UG/ML | PAGE |
|---|---|---|---|---|---|---|
| SO4 | DUP | 0-.99 | 22 | .0139077 | .0181188 | A41 |
| SO4 | DUP | .99-9.84 | 79 | .0315656 | .0411233 | |
| SO4 | SPK | 0-.99 | 98 | .0177186 | .0230836 | |
| SO4 | SPK | .99-9.84 | 103 | .159936 | .208362 | |
| SO4 | SPK | 9.84-56.6 | 105 | .922417 | 1.20172 | |
| NA | DUP | 0-.0289 | 13 | 2.08523E-03 | 2.71662E-03 | A46 |
| NA | DUP | .0289-.192 | 56 | 4.29838E-03 | 5.59988E-03 | |
| NA | DUP | .192-.96 | 28 | 6.85768E-03 | 8.93411E-03 | |
| NA | DUP | .96->.96 | 8 | .0408501 | .0532191 | |
| NA | SPK | 0-.0289 | 60 | 2.17533E-03 | 2.83400E-03 | |
| NA | SPK | .0289-.192 | 78 | 4.44721E-03 | 5.79377E-03 | |
| NA | SPK | .192-.96 | 106 | .0129147 | .0168251 | |
| NA | SPK | .96->.96 | 23 | .212215 | .276471 | |
| K | DUP | 0-.0289 | 55 | 1.31889E-03 | 1.71824E-03 | A54 |
| K | DUP | .0289-.192 | 41 | 2.83446E-03 | 3.69270E-03 | |
| K | DUP | .192-.96 | 2 | 4.01599E-03 | 5.23199E-03 | |
| K | SPK | 0-.0289 | 76 | 2.35808E-03 | 3.07208E-03 | |
| K | SPK | .0289-.192 | 116 | 4.13718E-03 | 5.38987E-03 | |
| K | SPK | .192-.96 | 106 | .0237432 | .0309324 | |
| K | SPK | .96->.96 | 7 | .0710689 | .0925877 | |
| CA | DUP | 0-.0867 | 37 | .0100536 | .0130977 | A61 |
| CA | DUP | .0867-.576 | 49 | .0155466 | .020254 | |
| CA | DUP | .576-2.87 | 4 | .0274845 | .0358065 | |
| CA | SPK | 0-.0867 | 82 | 9.89614E-03 | .0128926 | |
| CA | SPK | .0867-.576 | 113 | .0178788 | .0232923 | |
| CA | SPK | .576-2.87 | 111 | .0477488 | .0622066 | |
| MG | DUP | 0-.0144 | 42 | 8.18738E-04 | 1.06664E-03 | A67 |
| MG | DUP | .0144-.096 | 54 | 1.21317E-03 | 1.58050E-03 | |
| MG | DUP | .096-.478 | 11 | 4.51800E-03 | 5.88600E-03 | |
| MG | SPK | 0-.0144 | 89 | 1.12245E-03 | 1.46232E-03 | |
| MG | SPK | .0144-.096 | 102 | 2.80530E-03 | 3.65471E-03 | |
| MG | SPK | .096-.478 | 102 | 9.28455E-03 | .0120958 | |

1129

A4

# QC PH DUP 0-5 UG/ML



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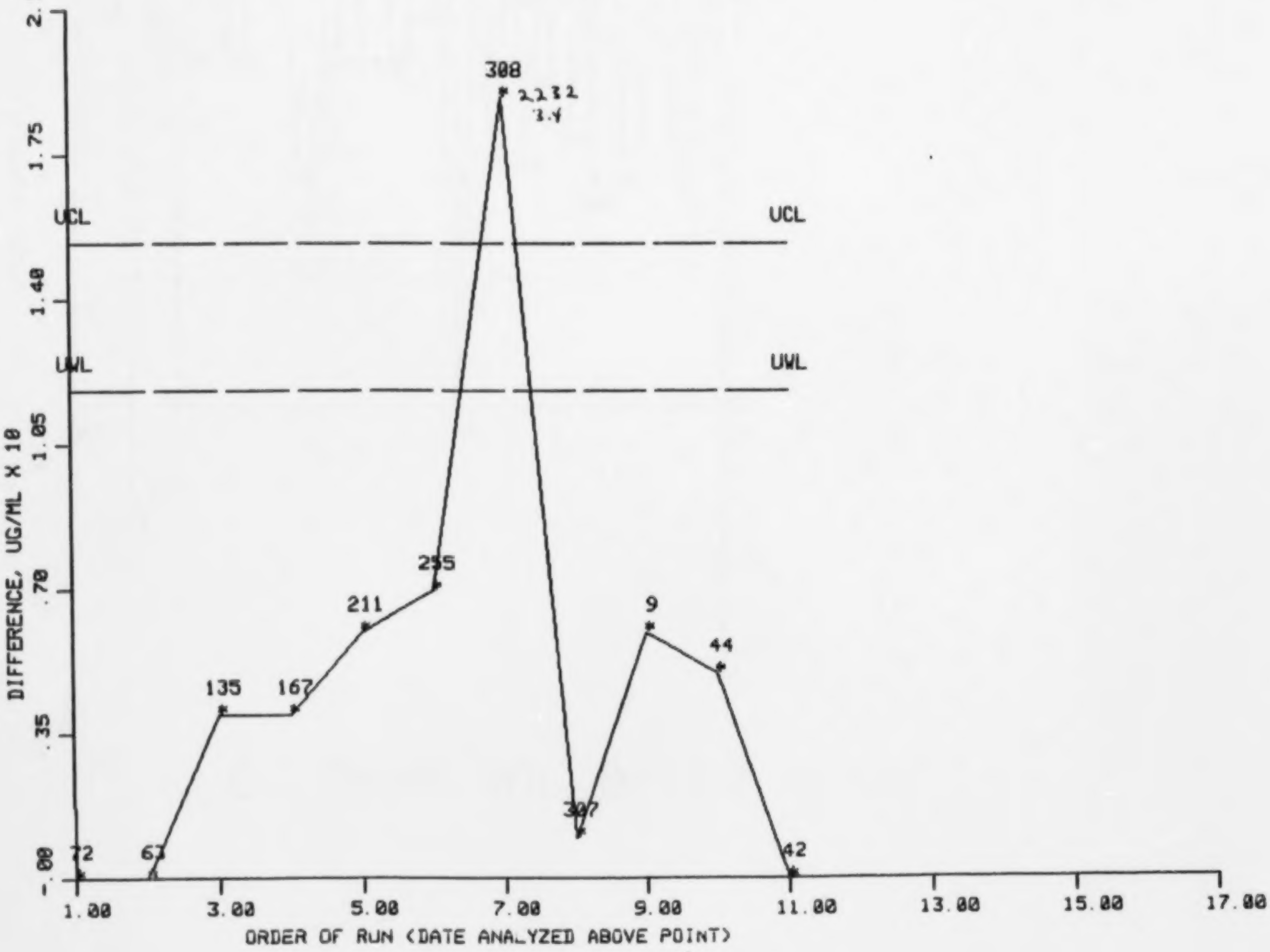
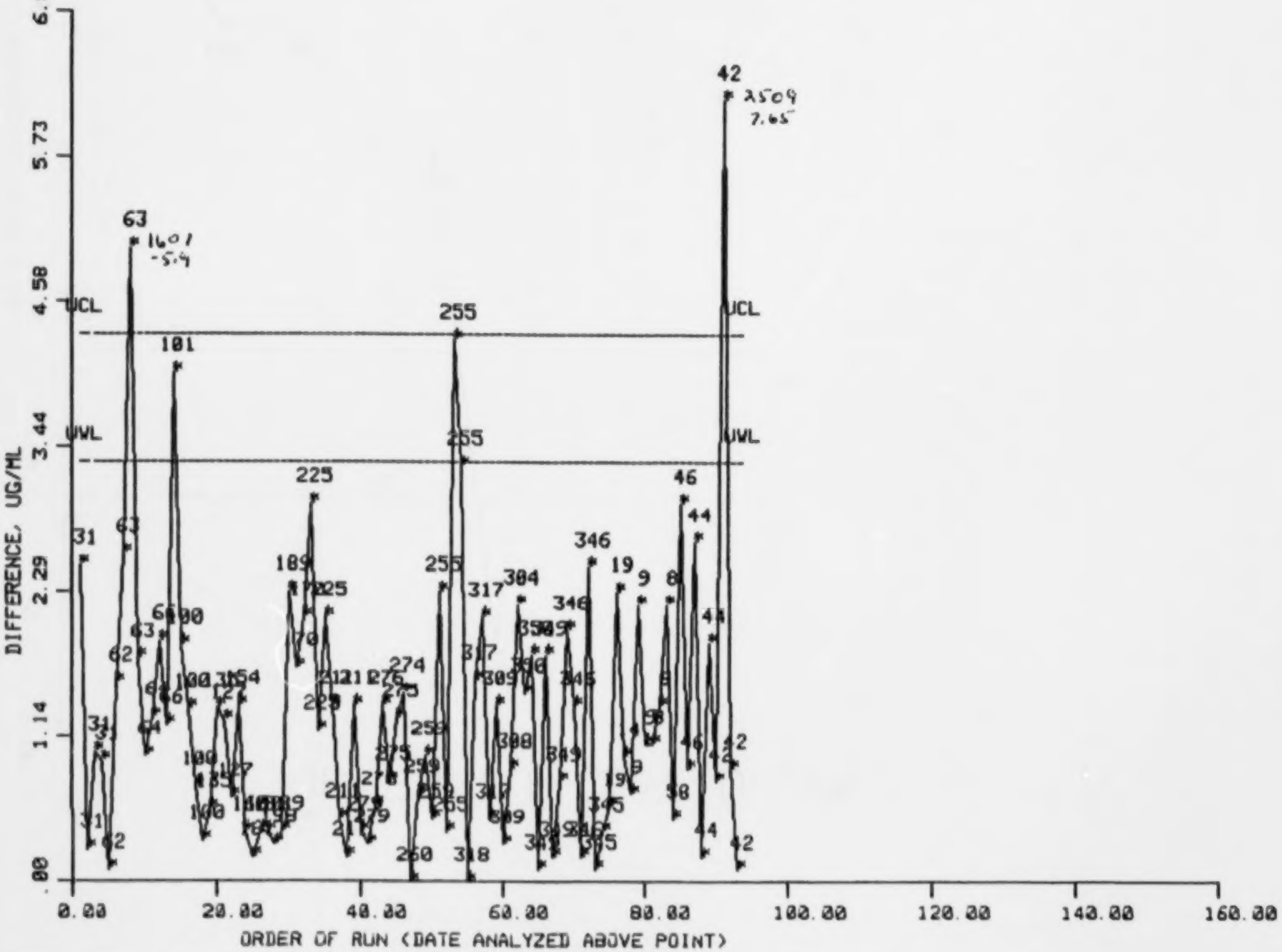
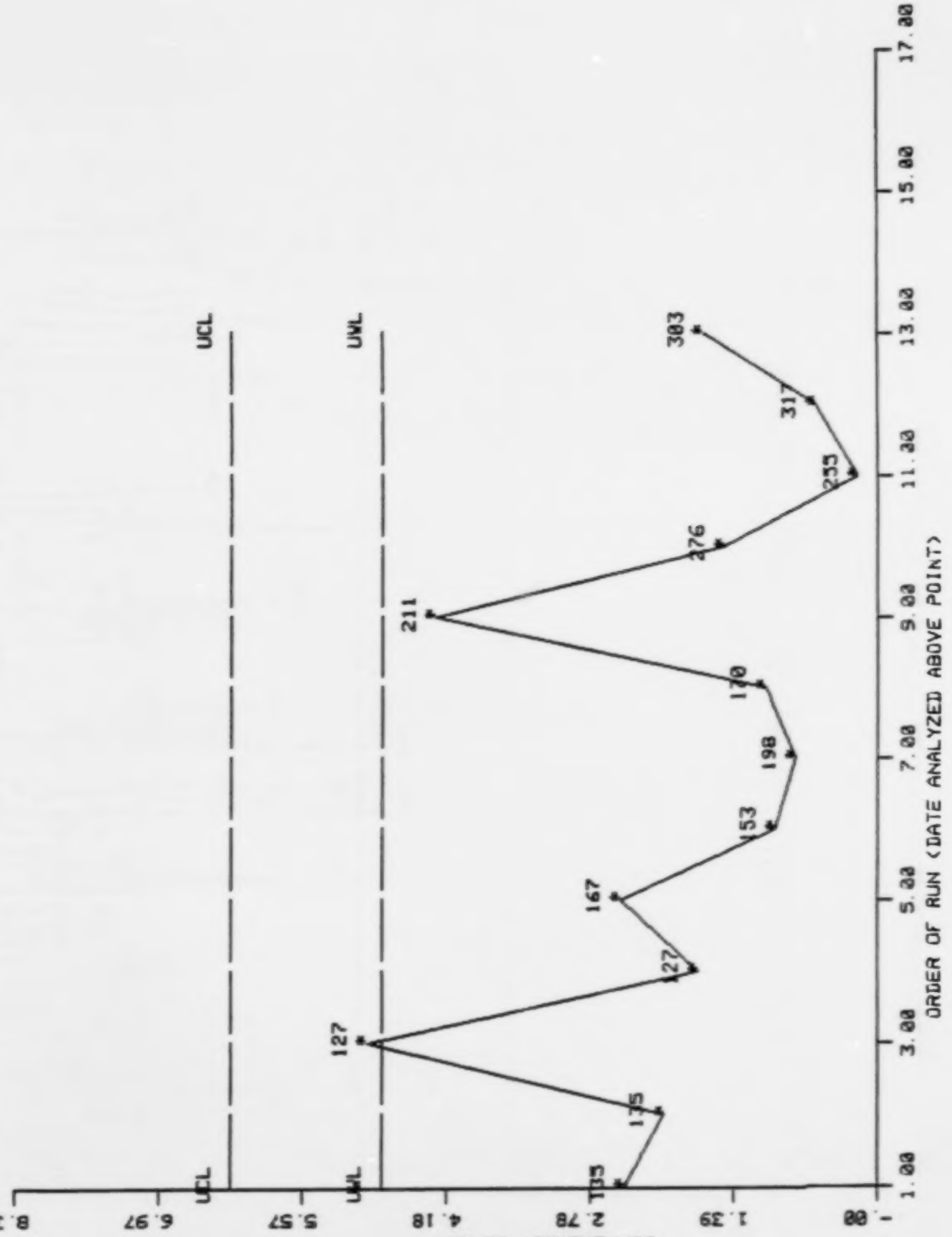


A5

A6

# QC GRAN DUP 0-100 UG/ML

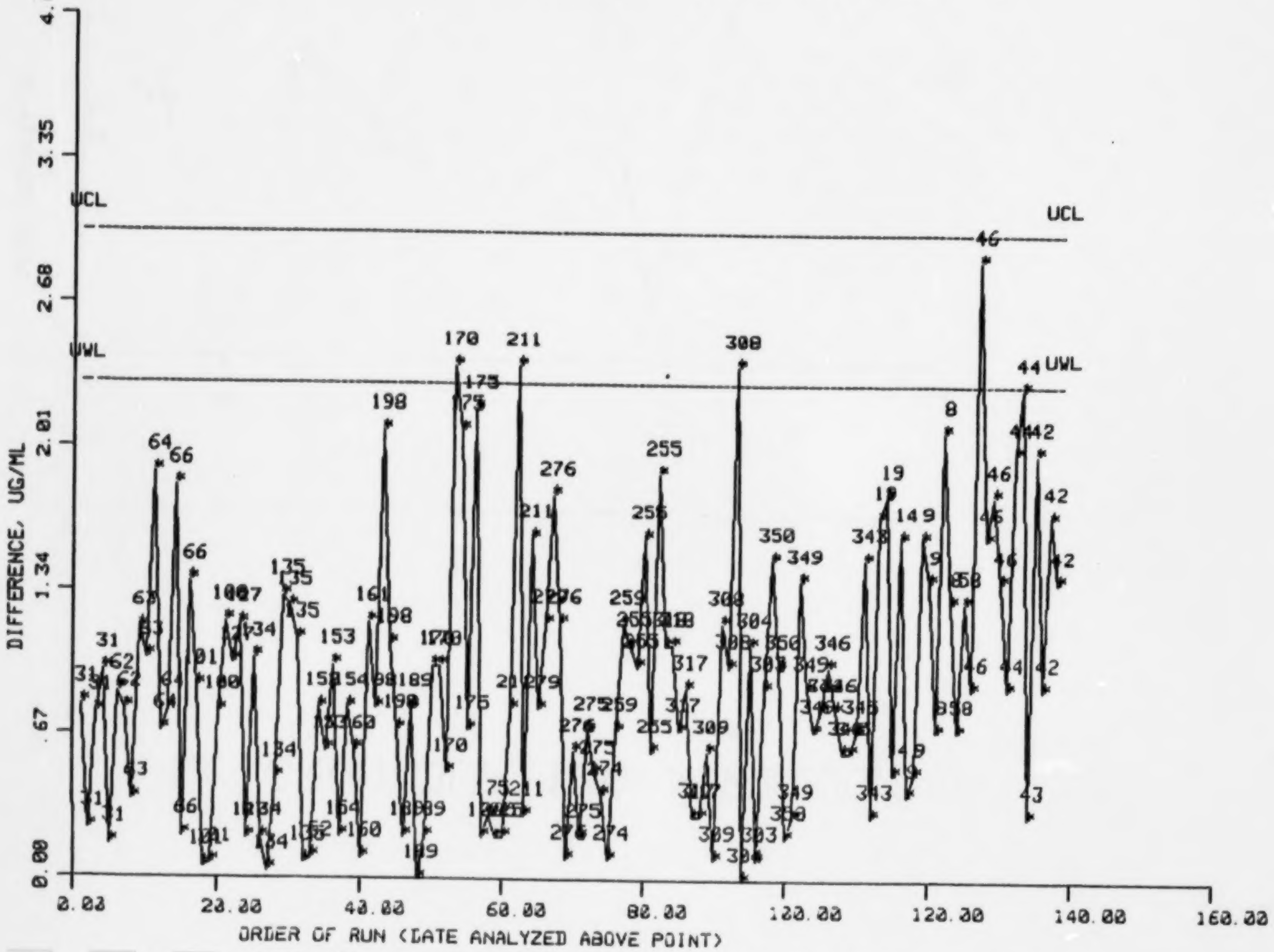



QC GRAN DUP 100->100 UG/ML

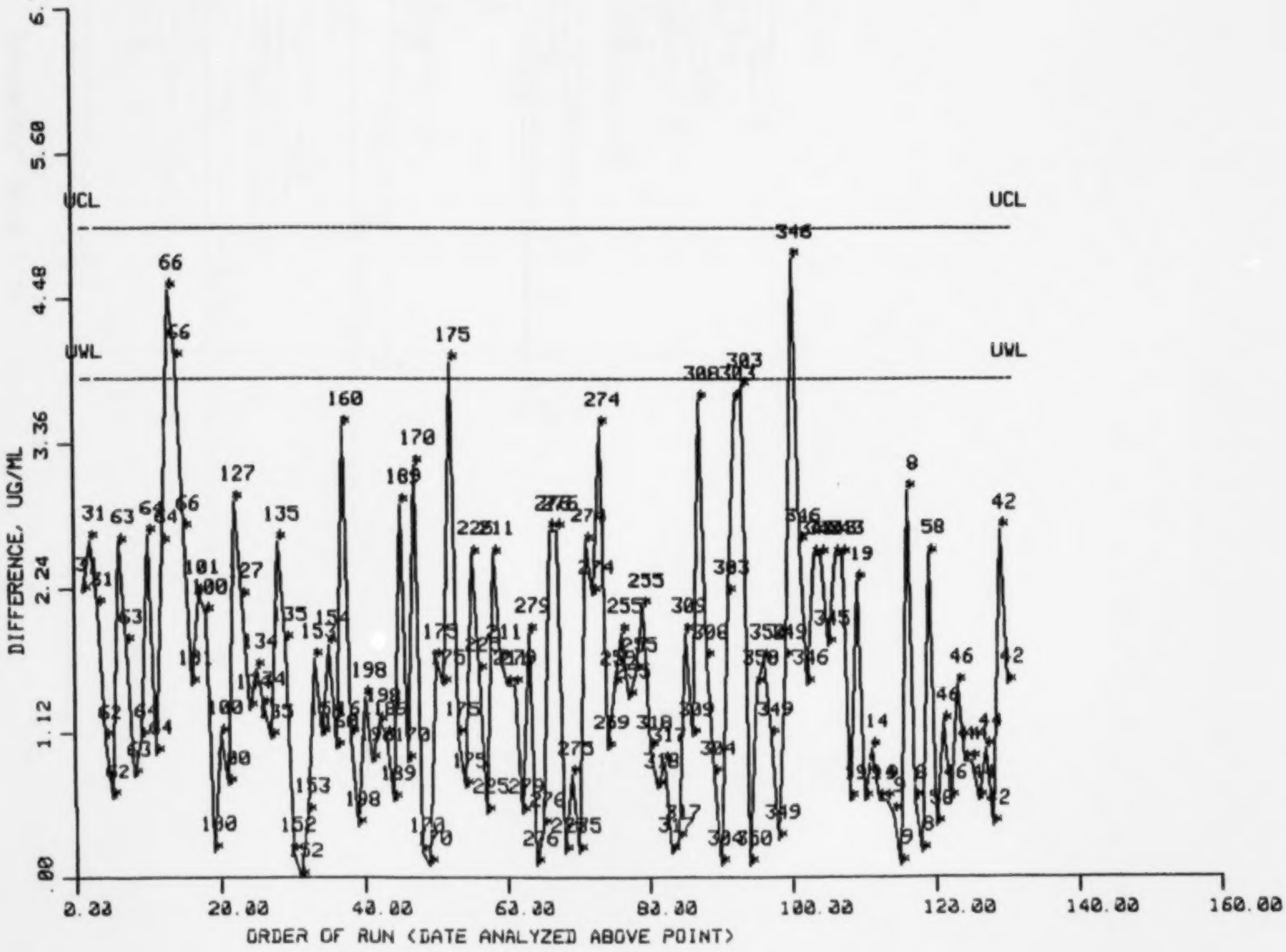
#33

A8

# QC GRAN SPK 0-100 UG/ML

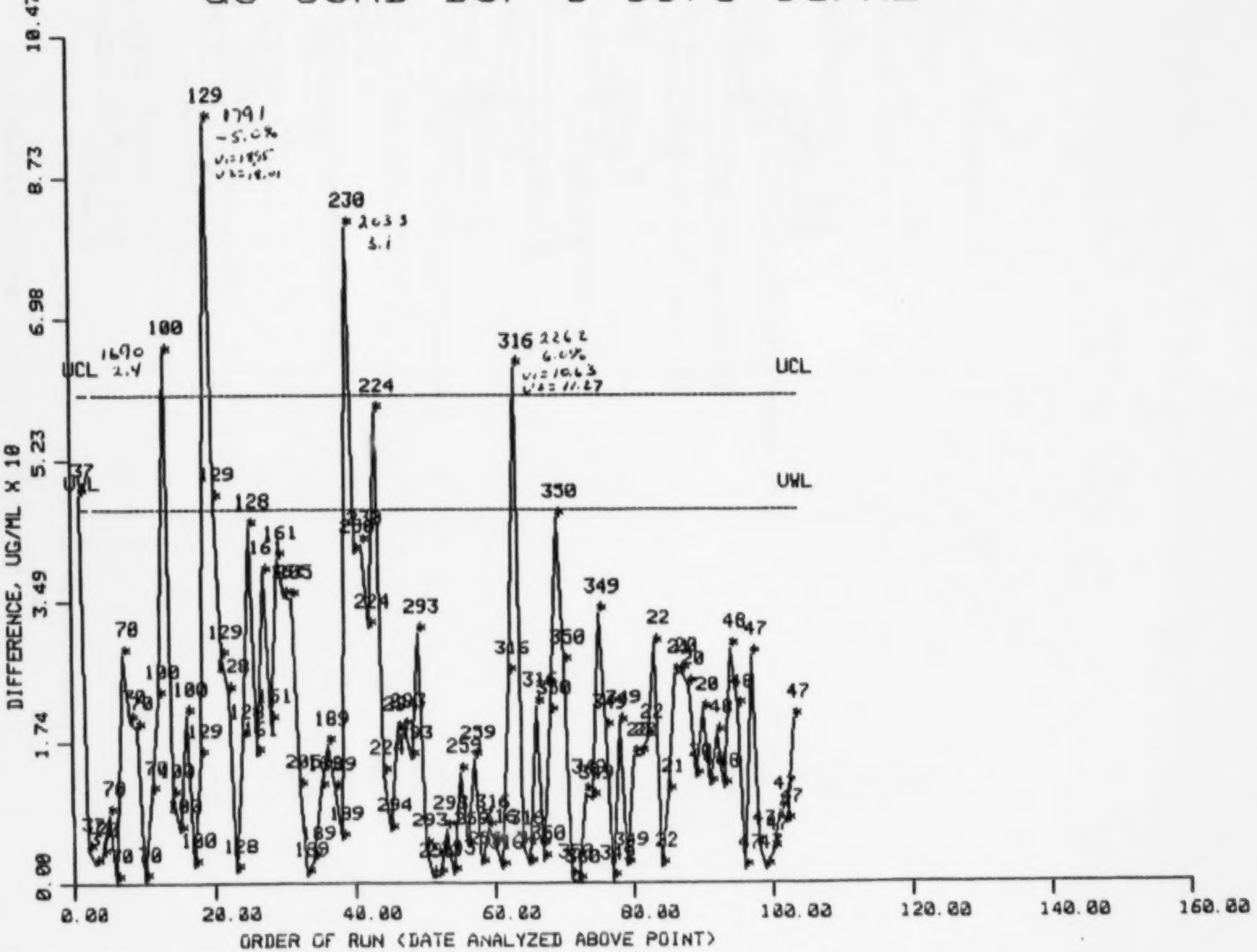


# QC GRAN SPK 100->100 UG/ML

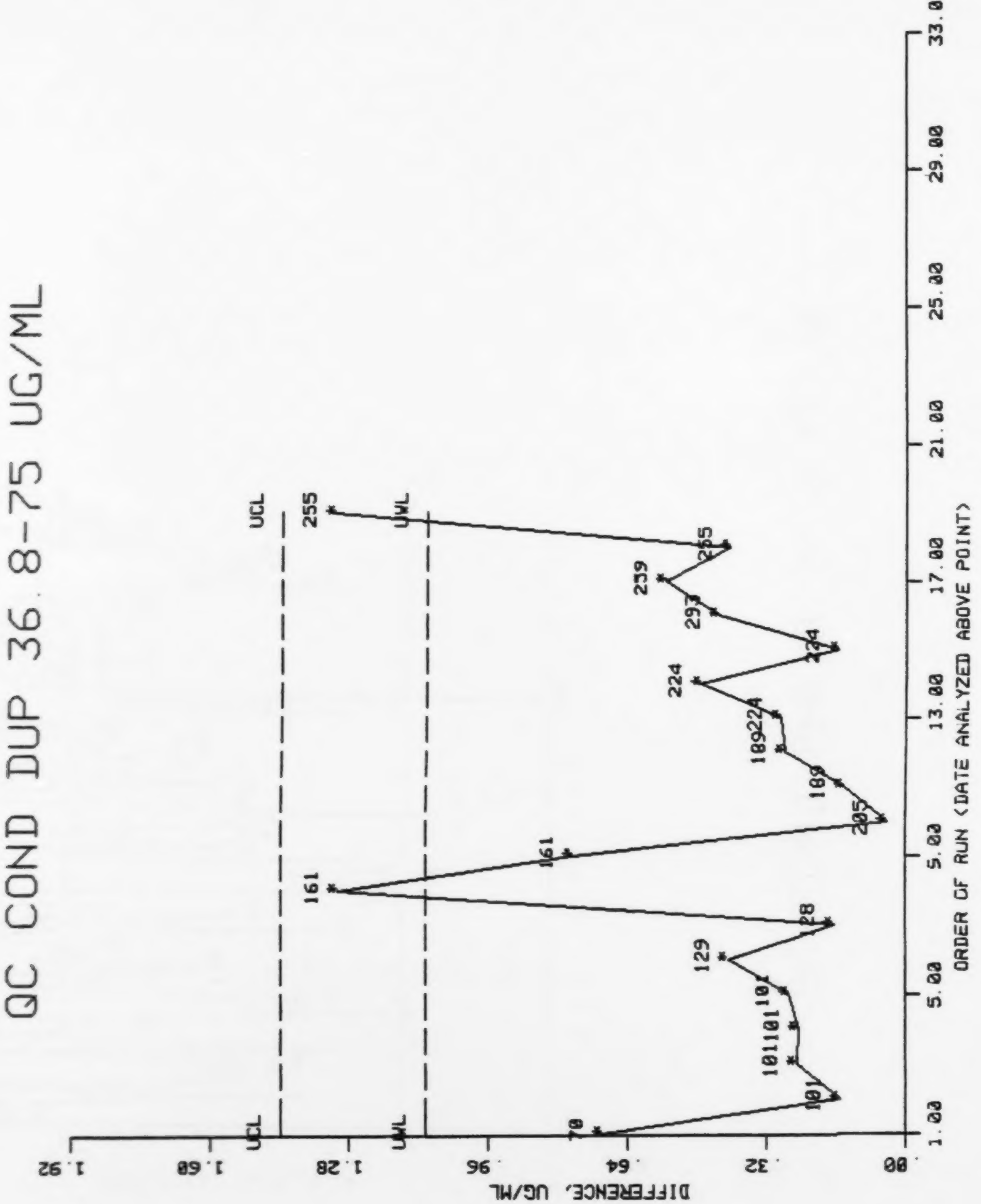


A10

# QC COND DUP 0-36.8 UG/ML

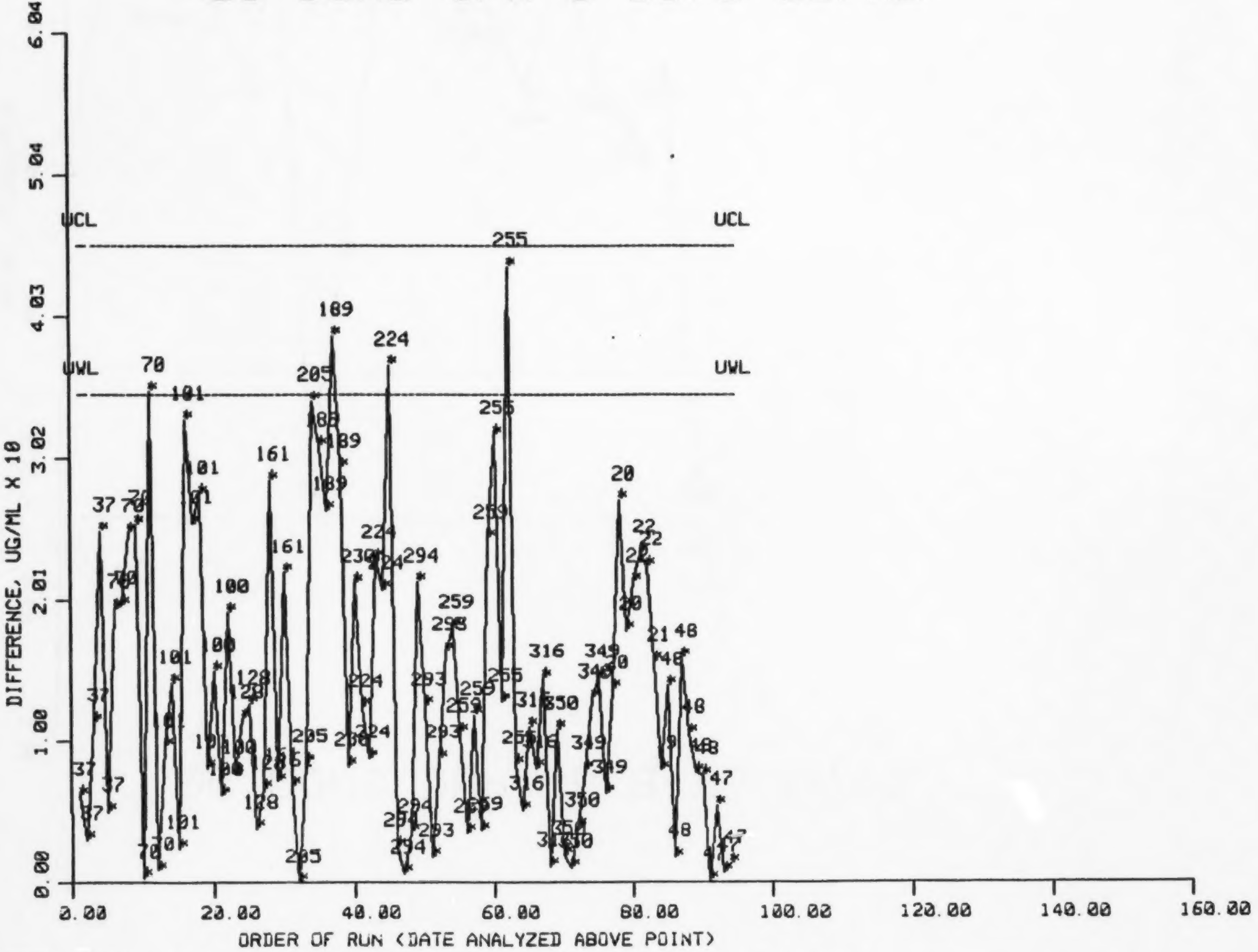


#36

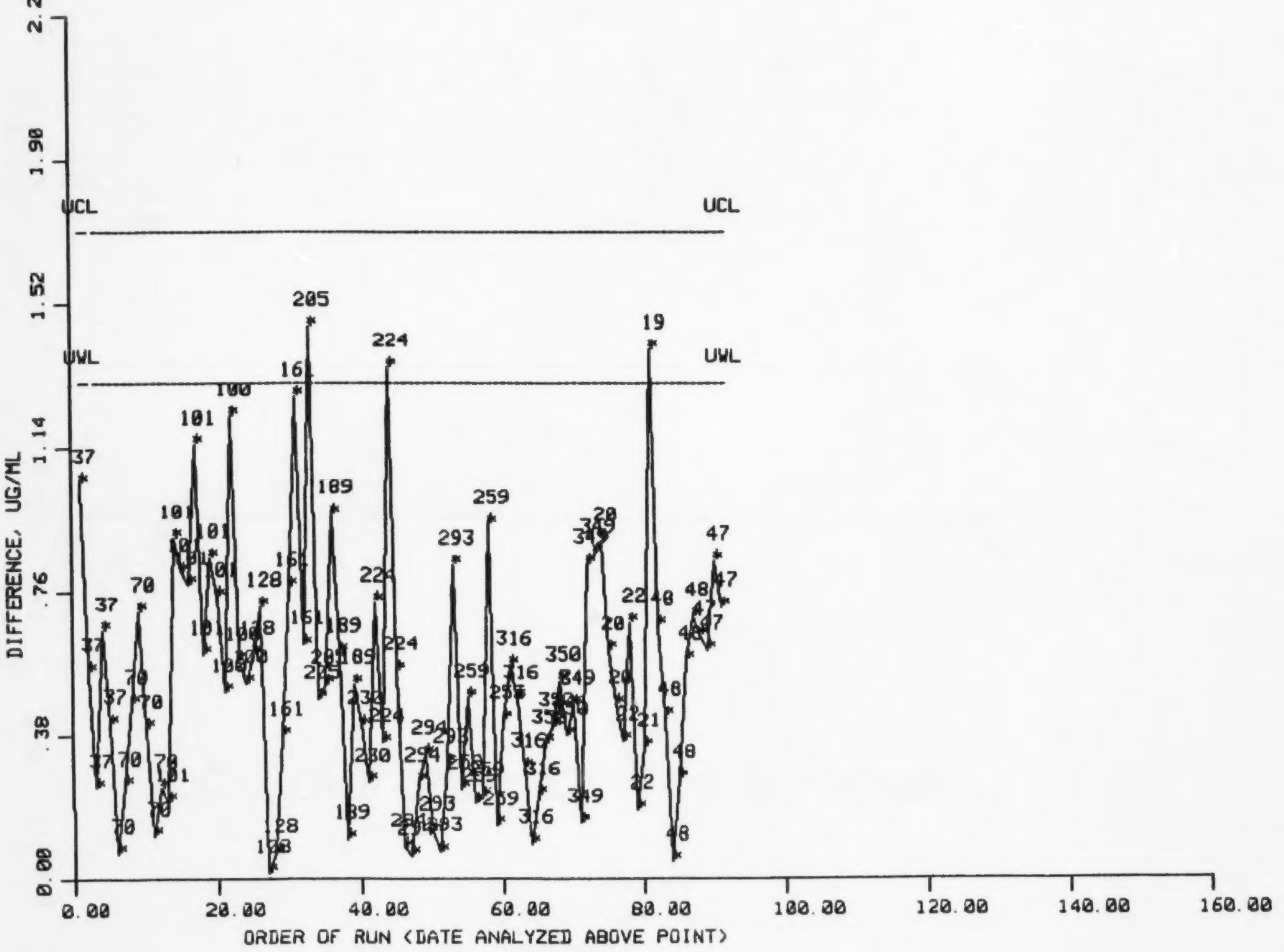

QC COND DUP 36 8-75 UG/ML

A12

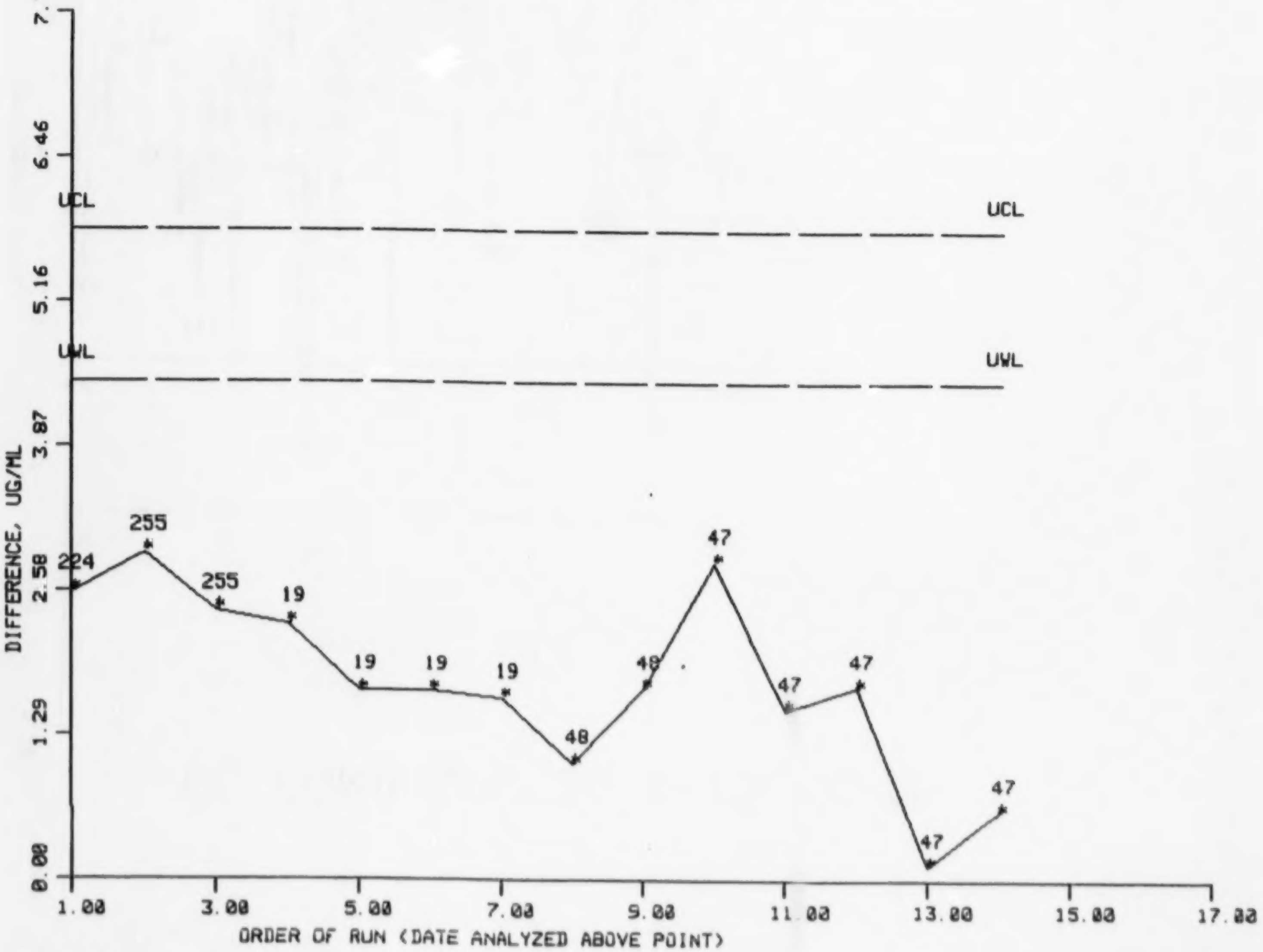
# QC COND SPK 0-36.8 UG/ML



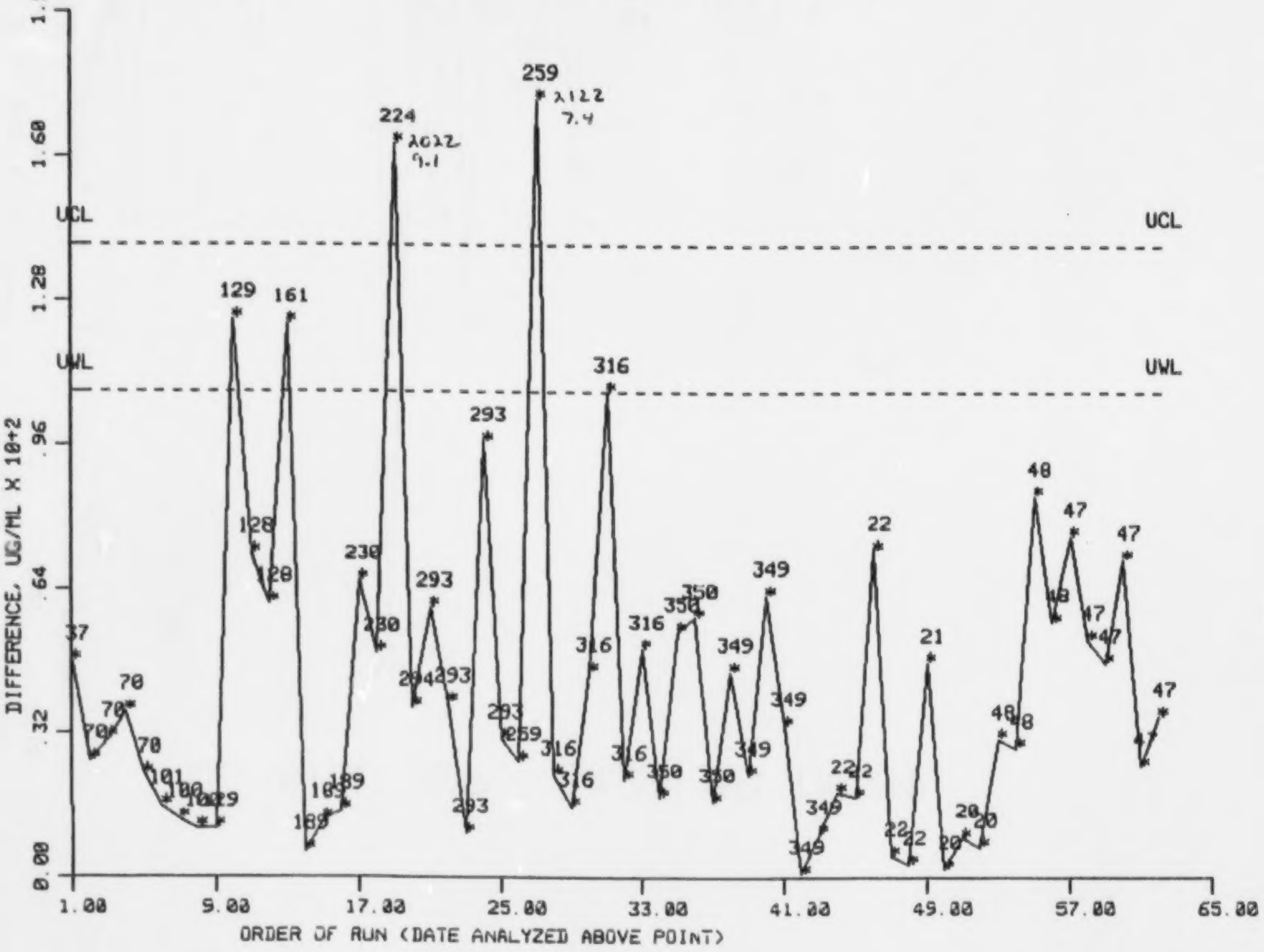
# QC COND SPK 36.8-75 UG/ML



QC COND SPK 75-144.7 UG/ML

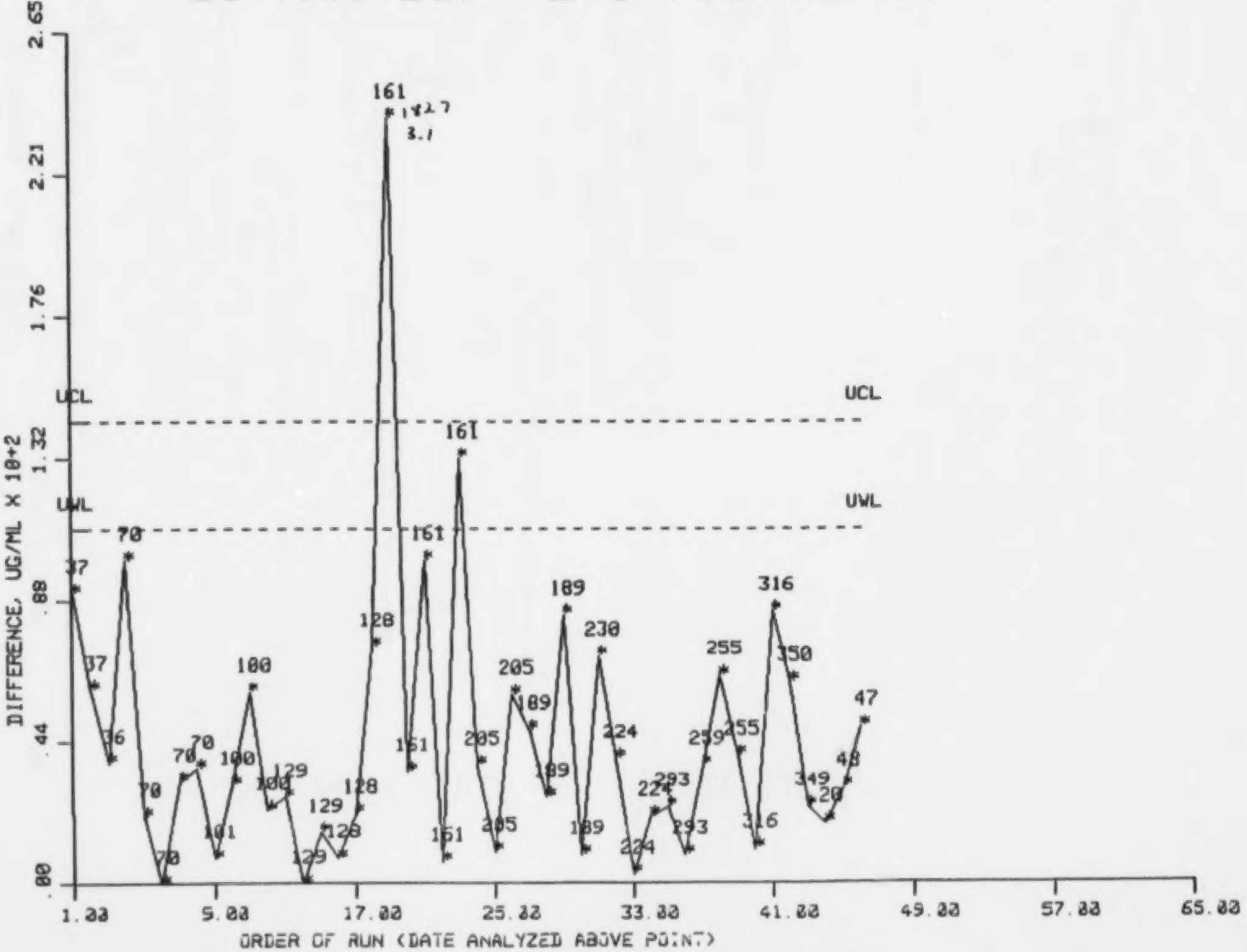


# QC NH4 DUP 0-.248 UG/ML

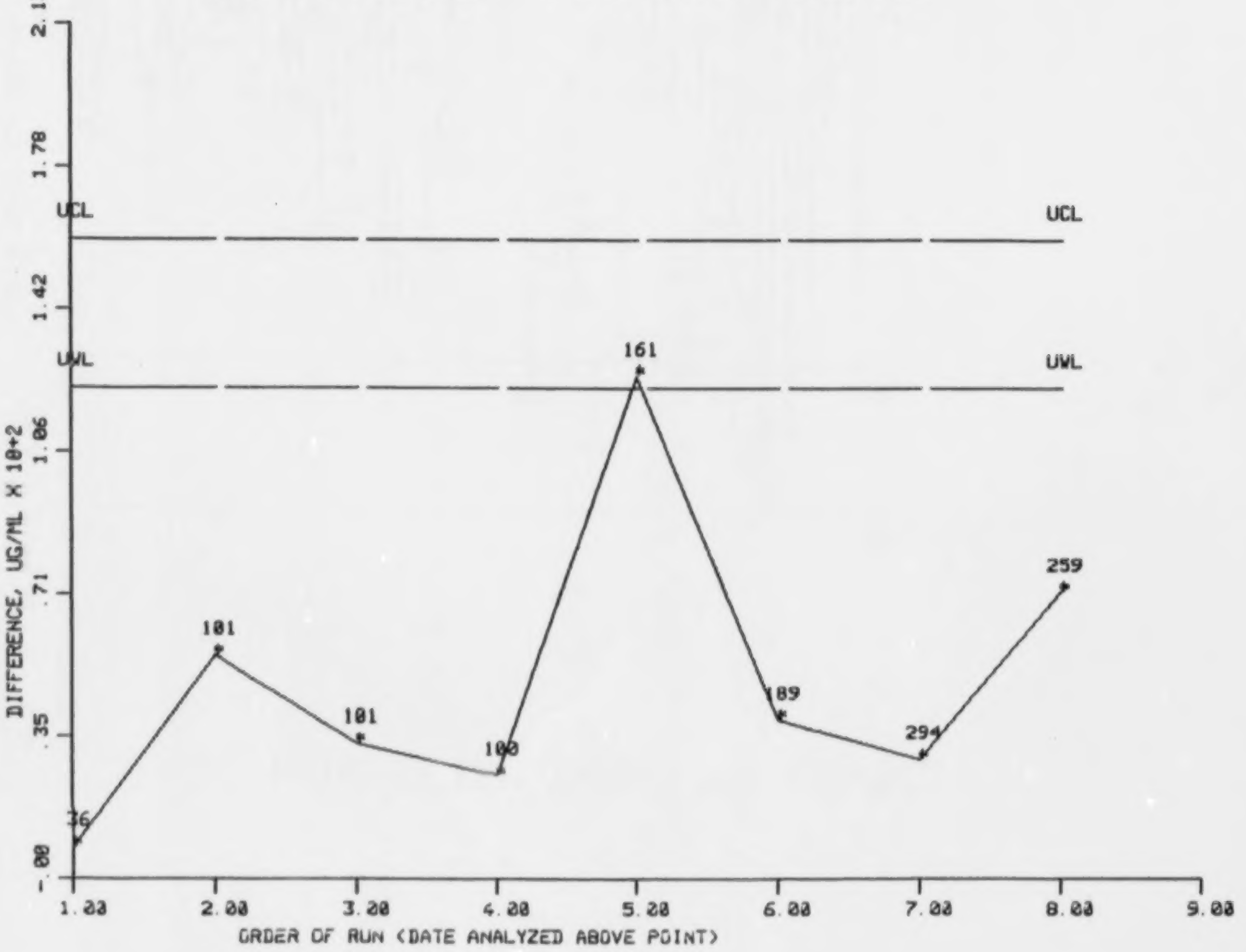


A16

# QC NH4 DUP .248-.98 UG/ML



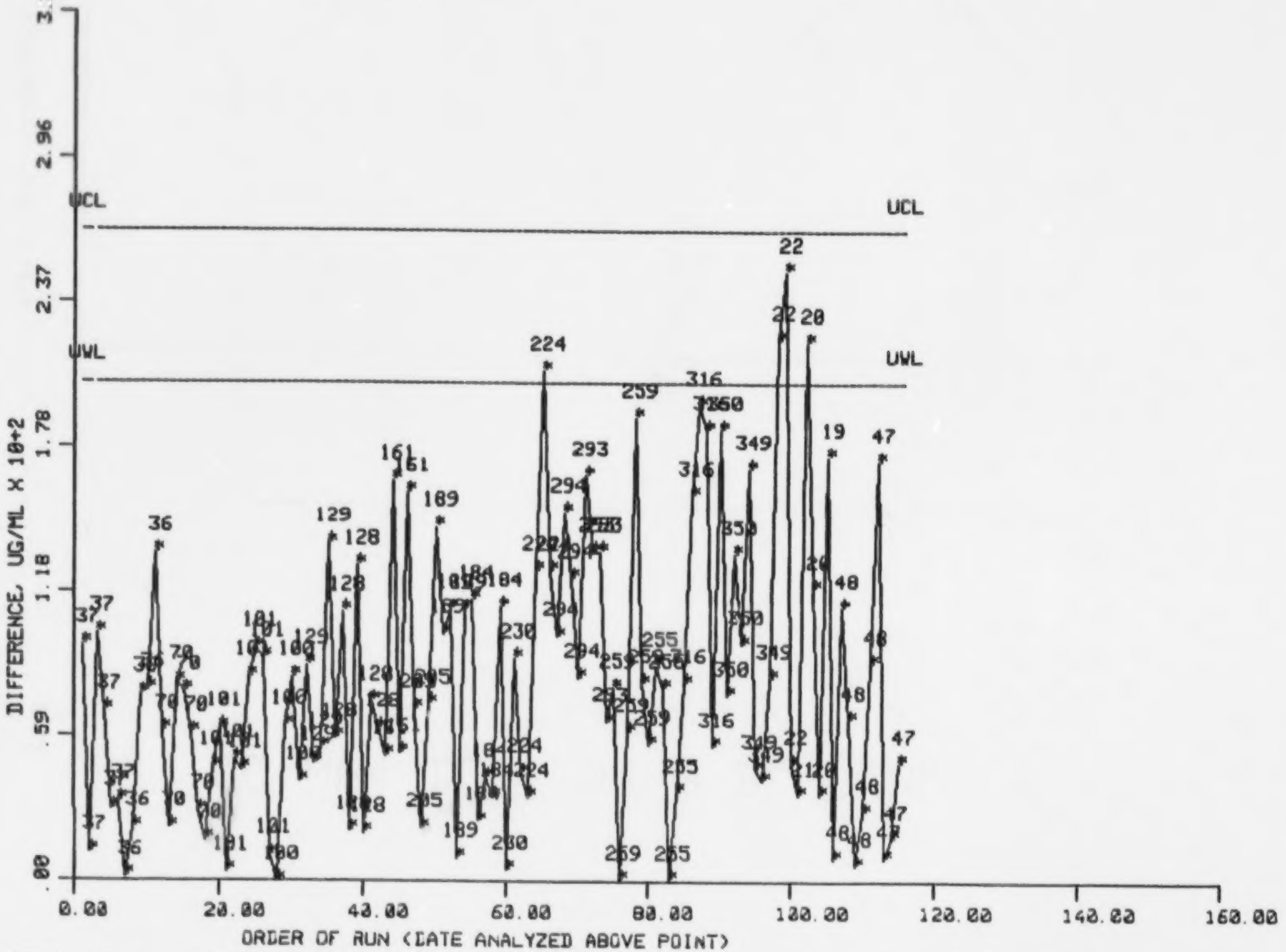
## QC NH4 DUP .98-2.9 UG/ML



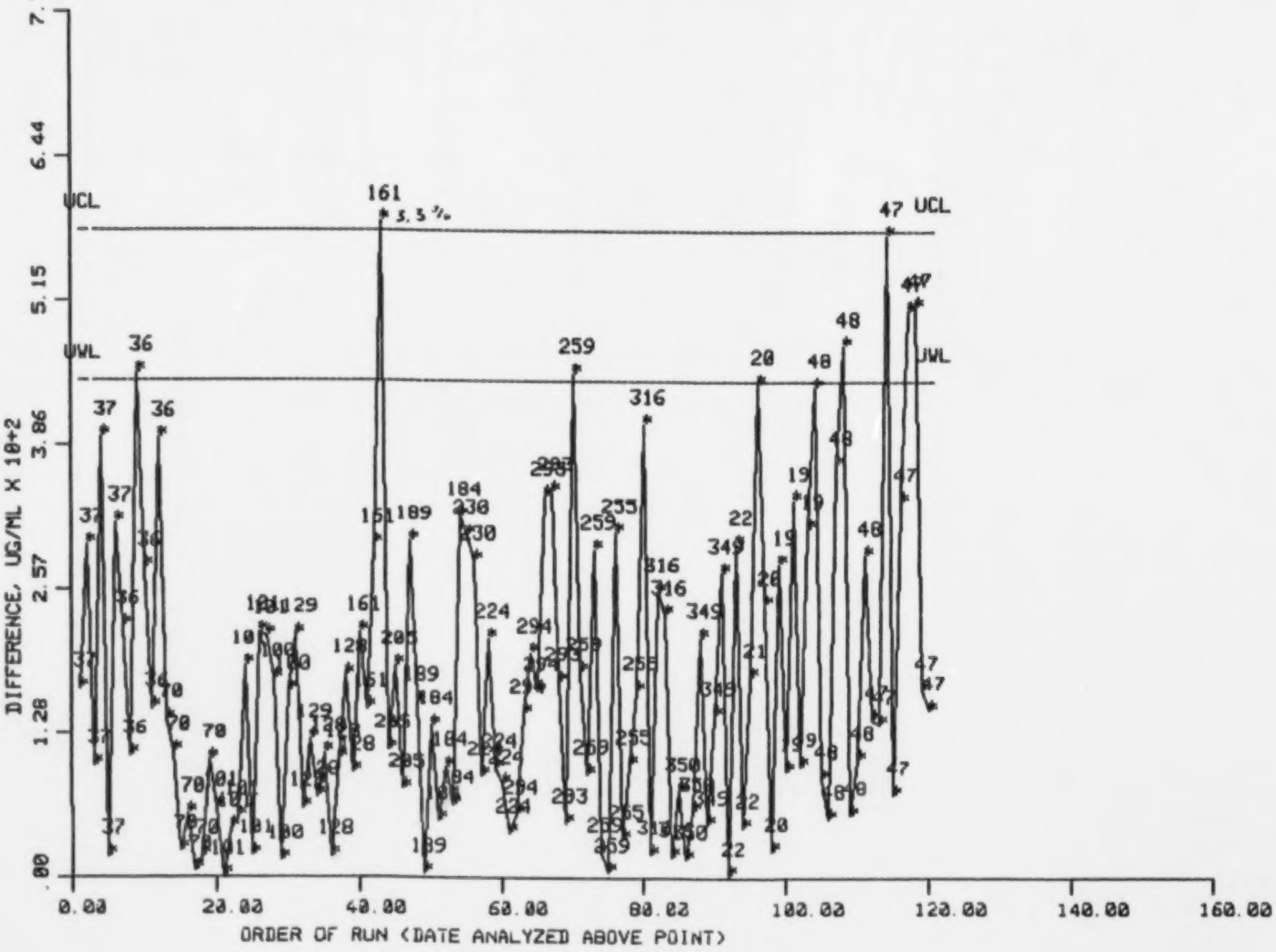
443

A18

# QC NH4 SPK .248-.98 UG/ML

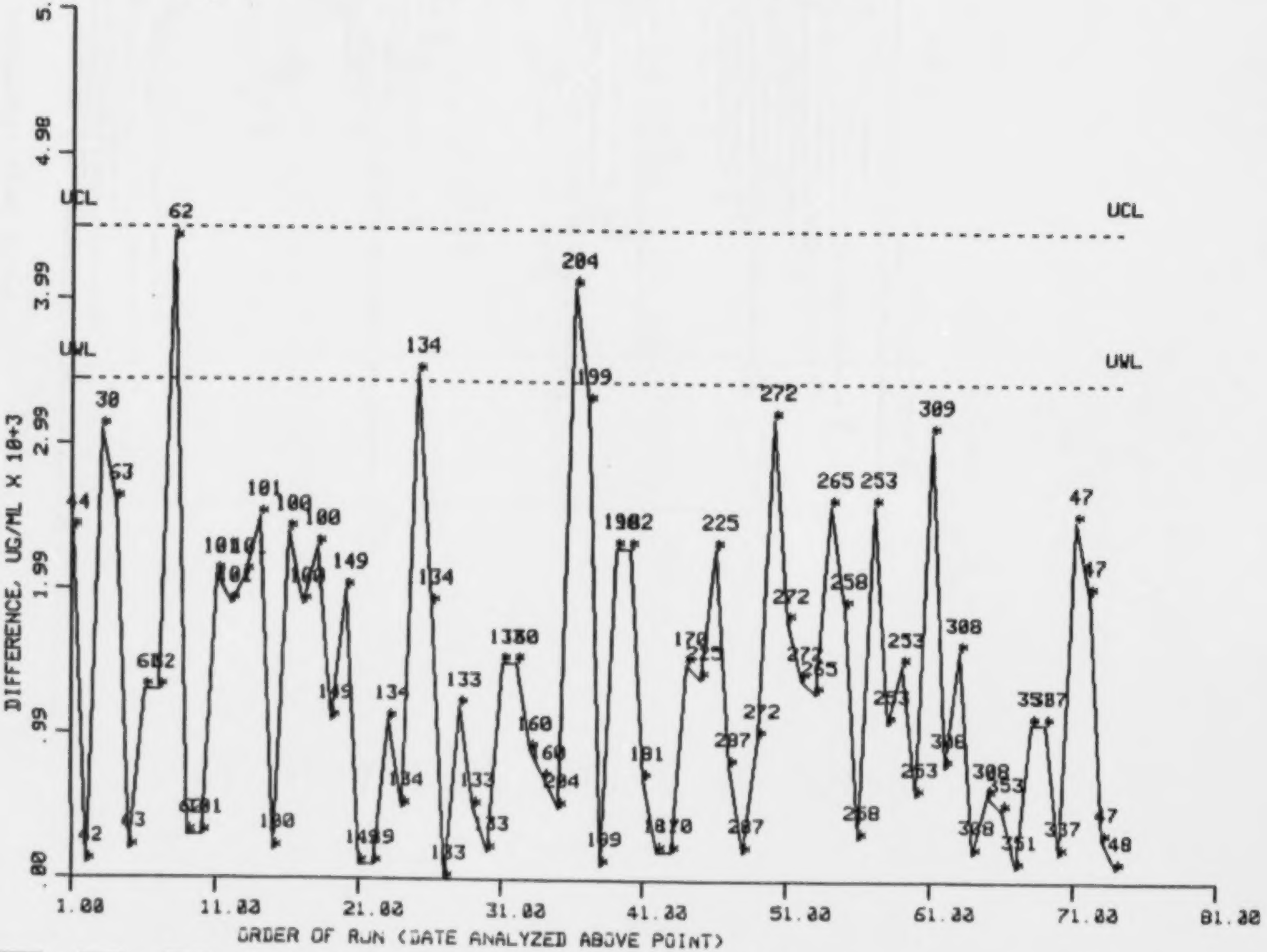


# QC NH4 SPK 98-2 9 UG/ML

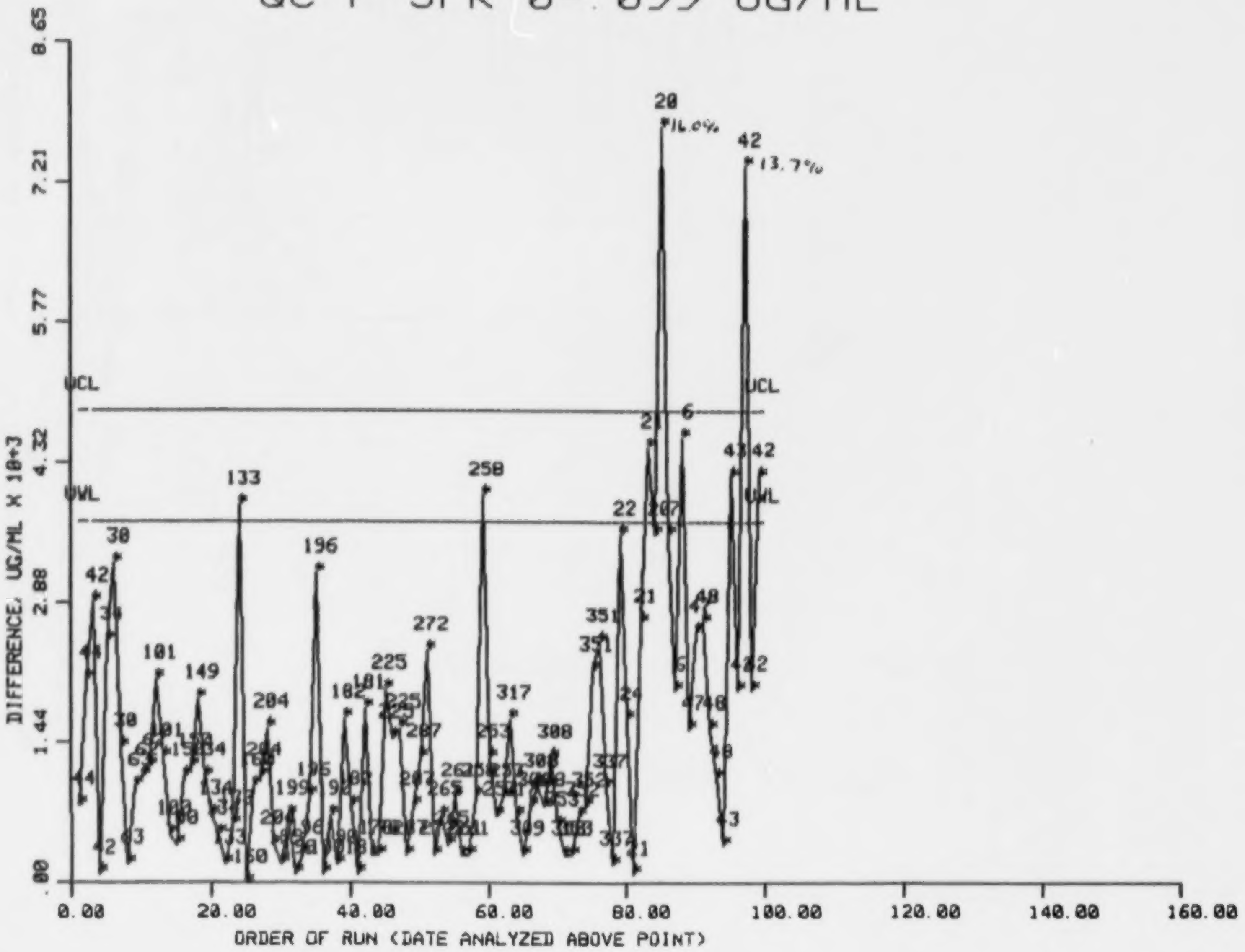


A20

# QC F DUP 0-.099 UG/ML



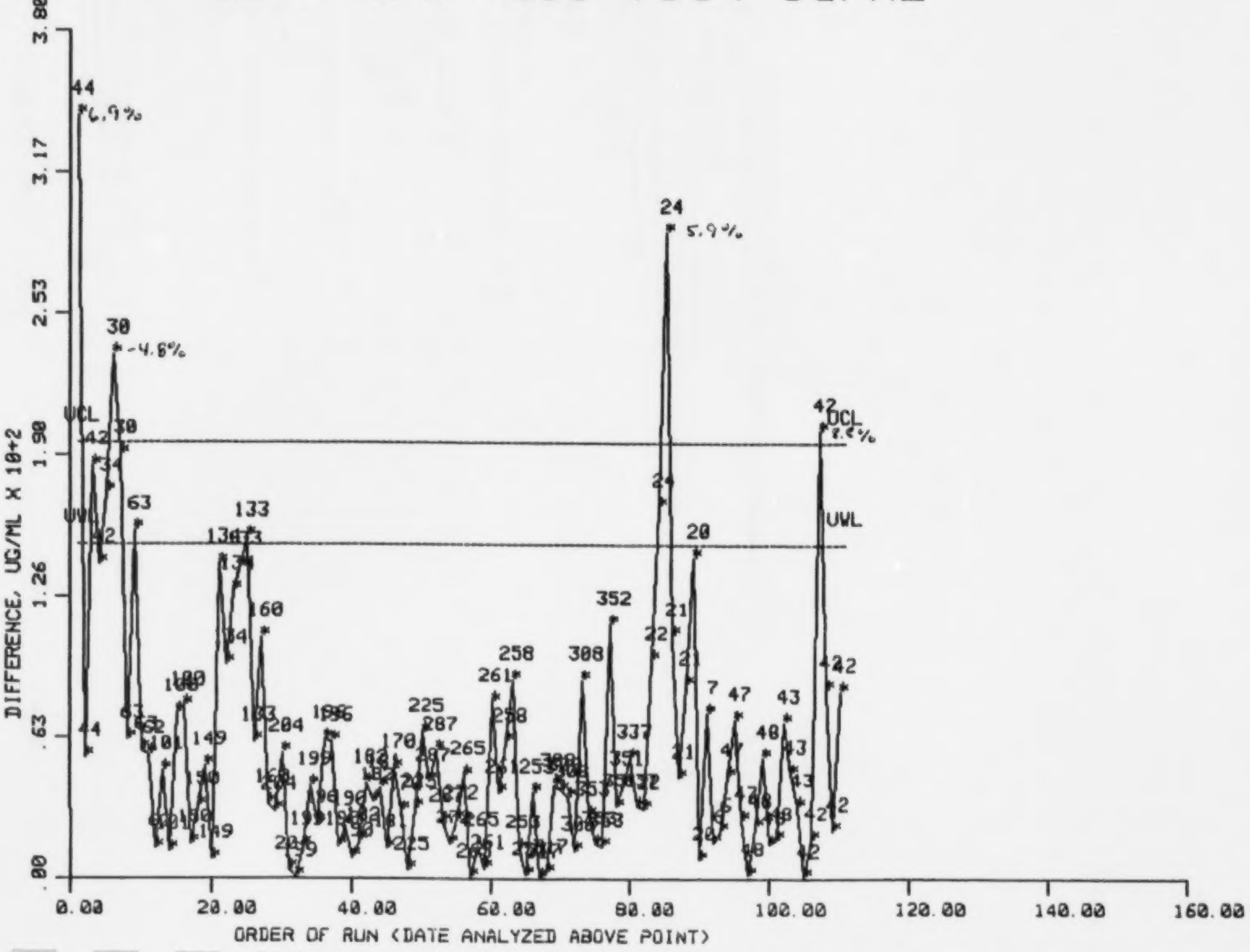
QC F SPK 0-.099 UG/ML



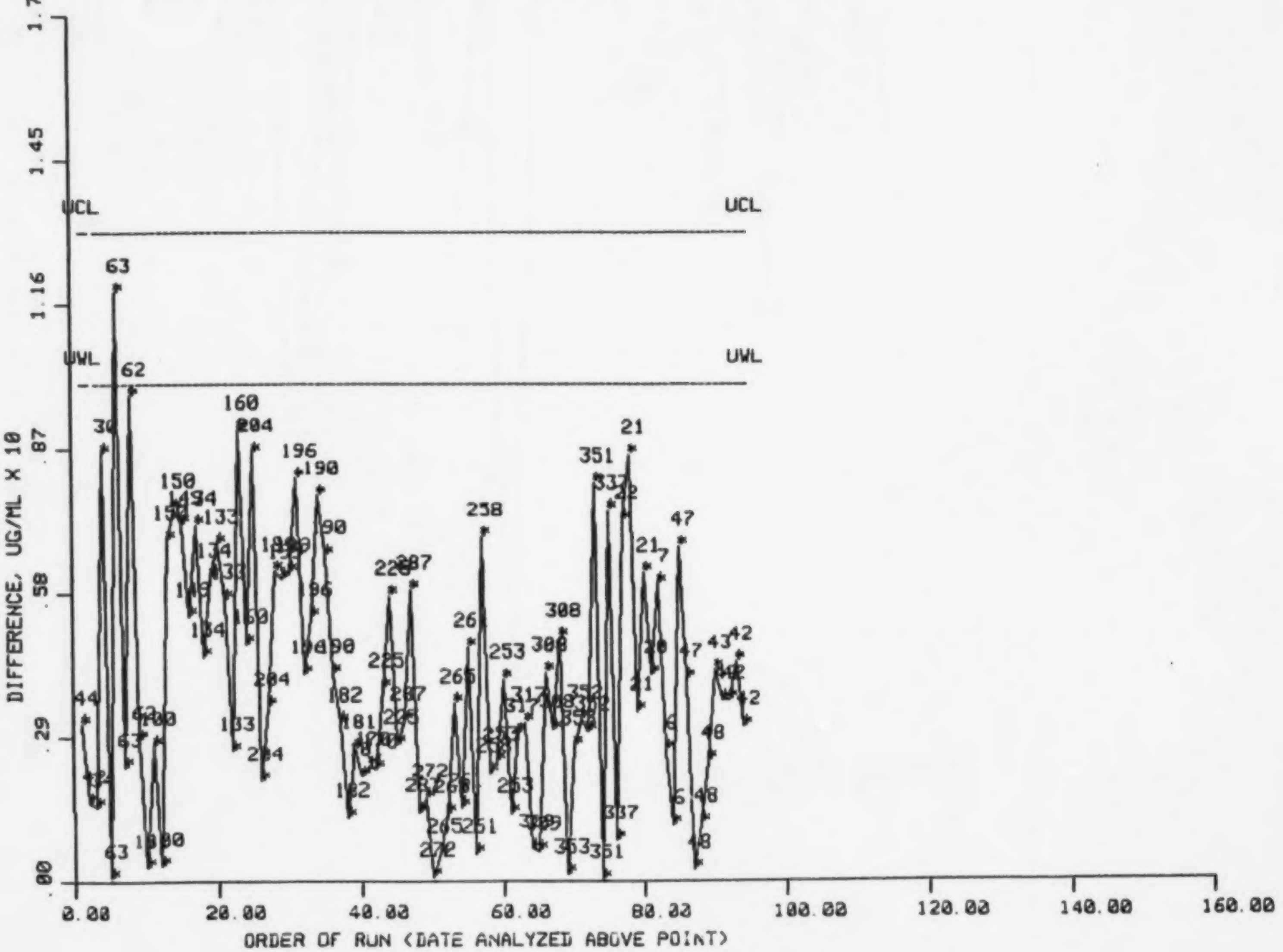
#47

A22

# QC F SPK .099-.984 UG/ML

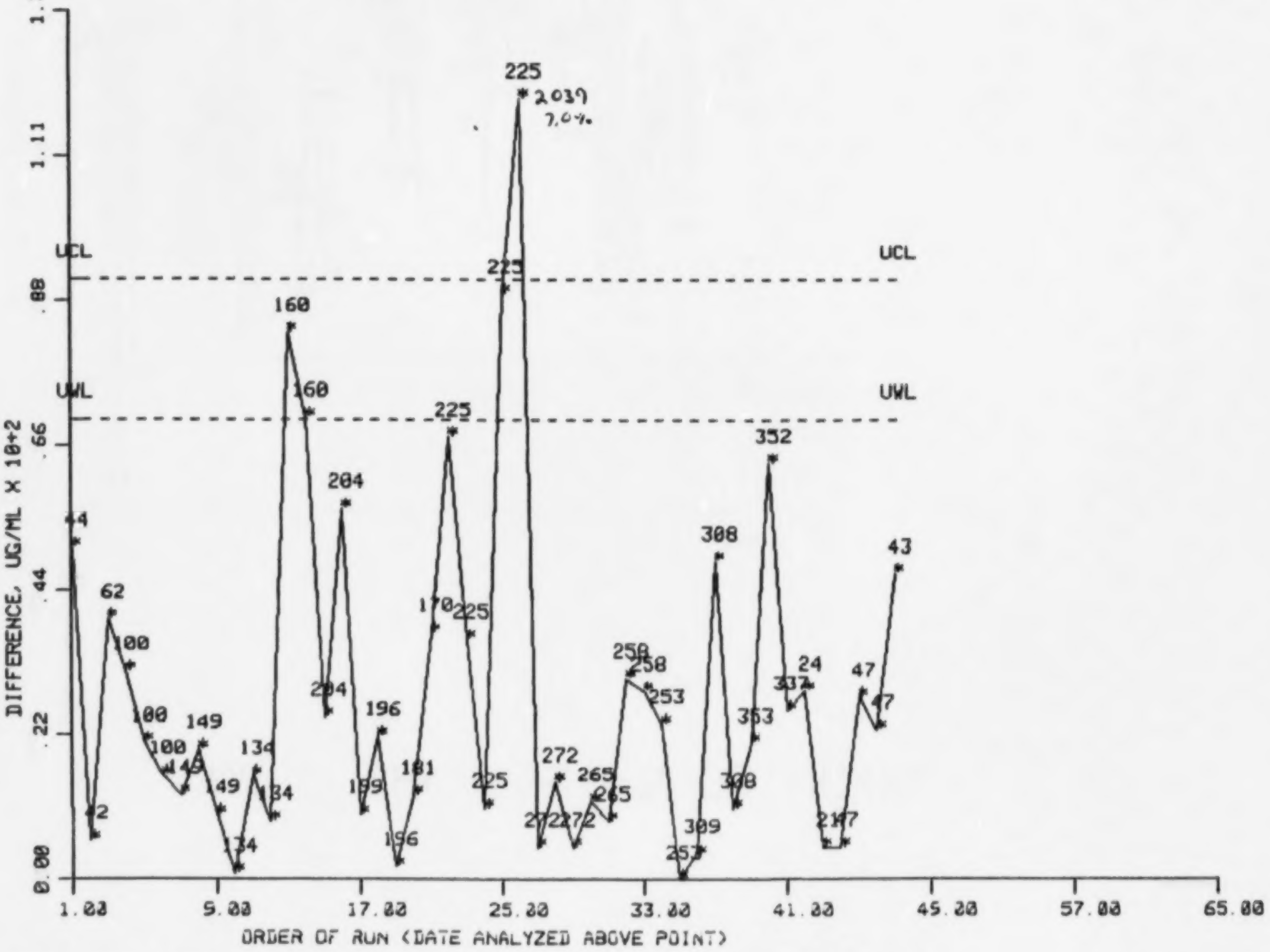


QC F SPK 984-5.66 UG/ML

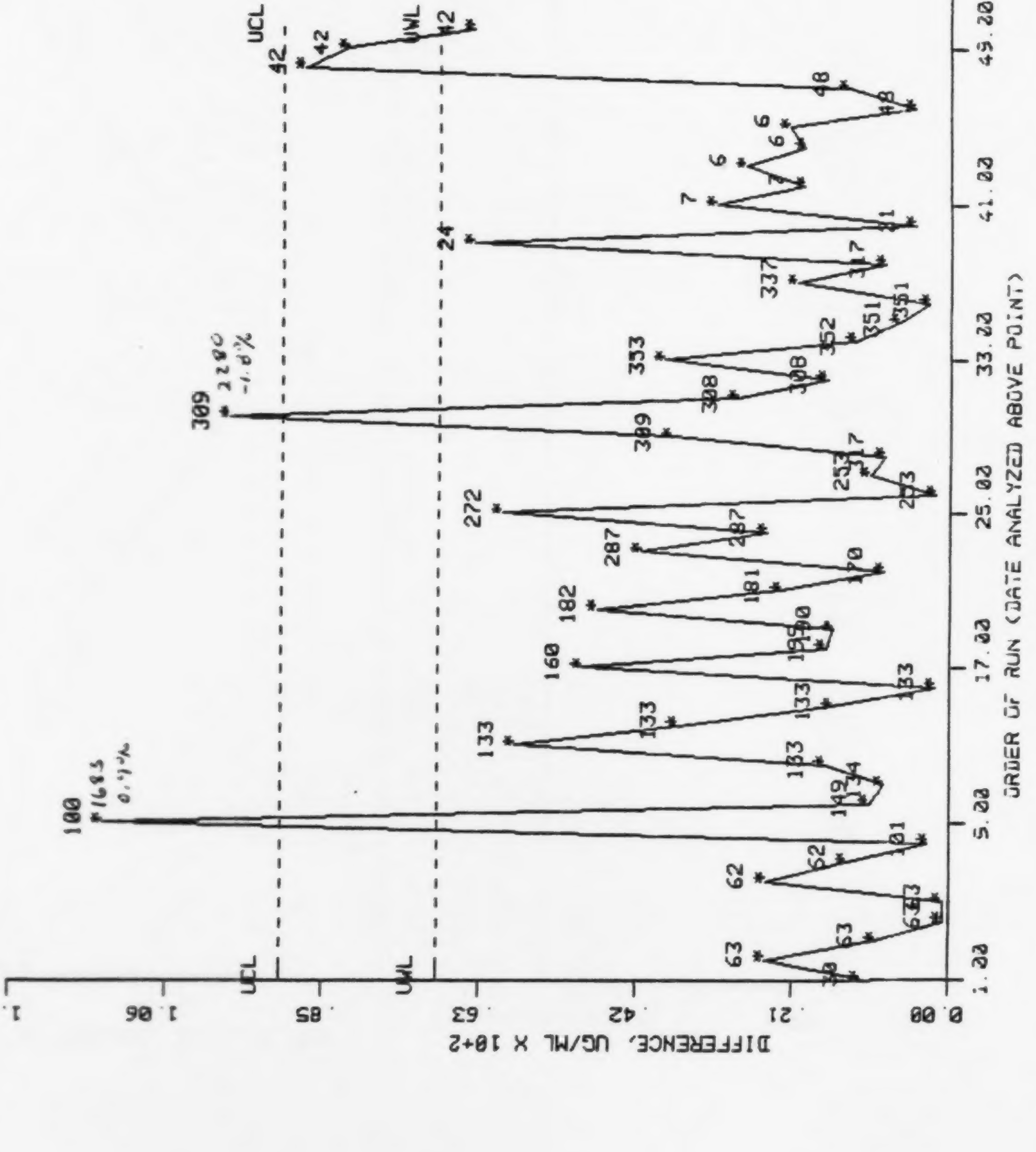


A24

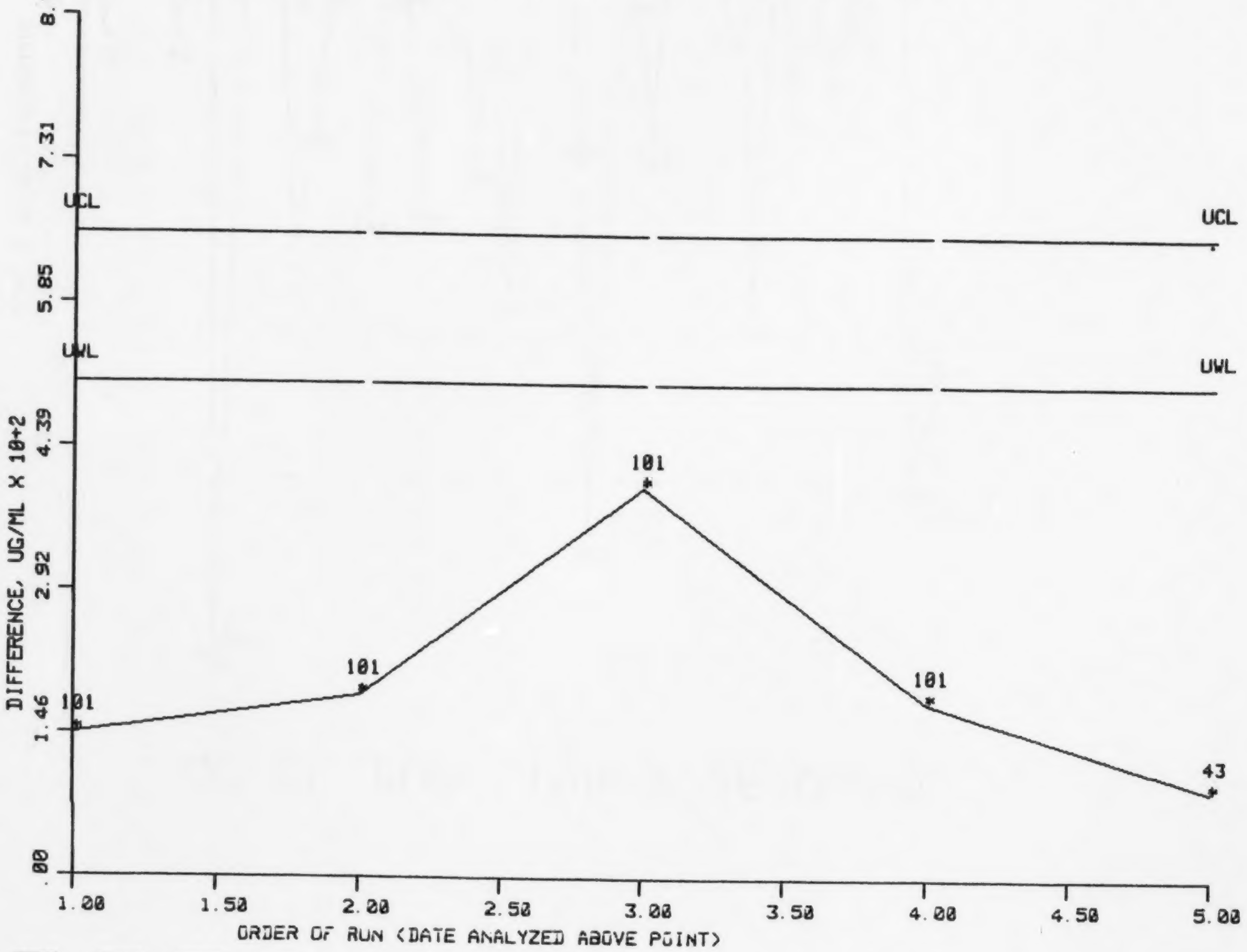
# QC CL DUP 0-.198 UG/ML



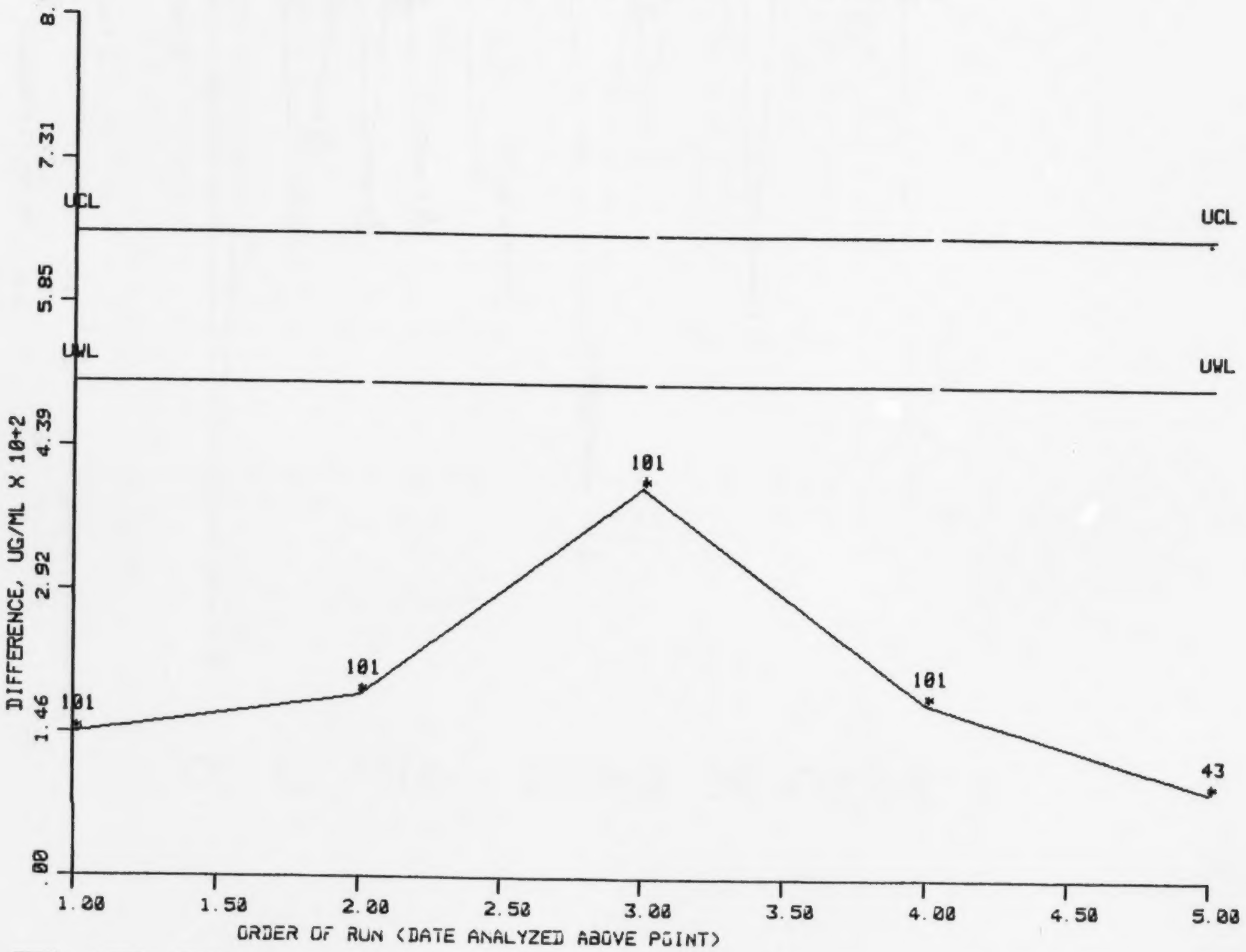
# QC CL DUP 198-1 96 UG/ML



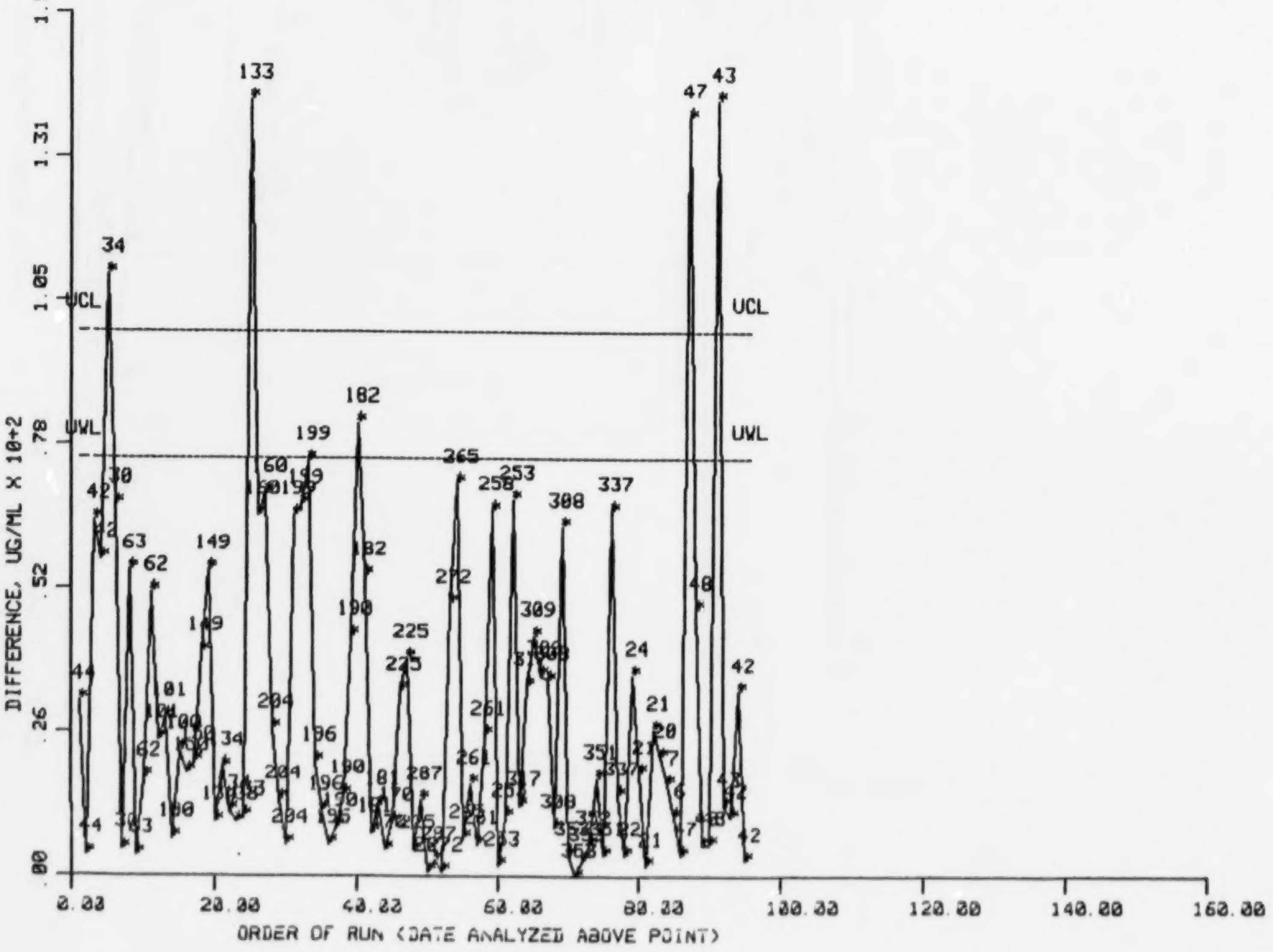
# QC CL DUP 1.96-11.3 UG/ML



QC CL DUP 1.96-11.3 UG/ML

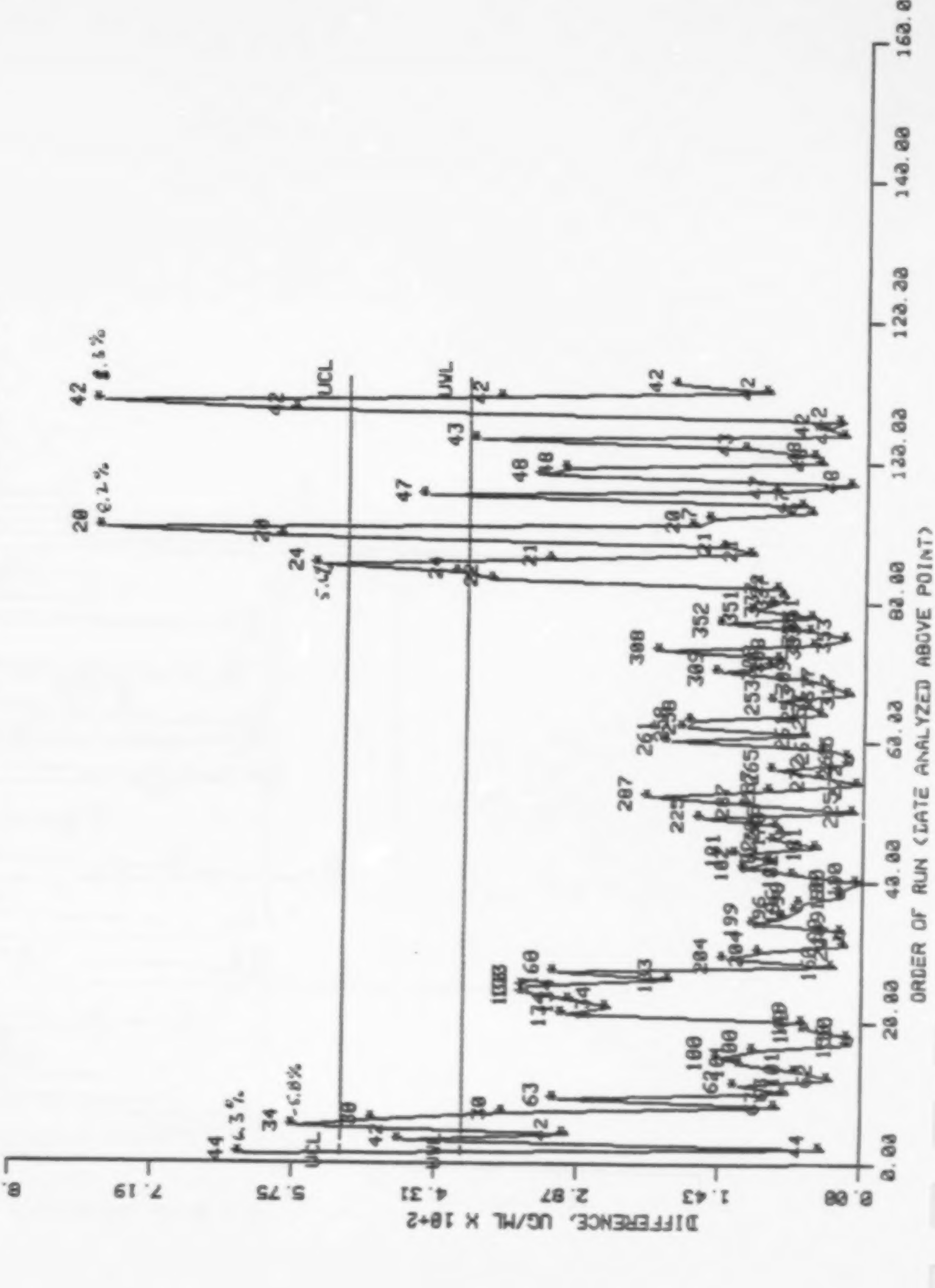


# QC CL SPK 0- 198 UG/ML

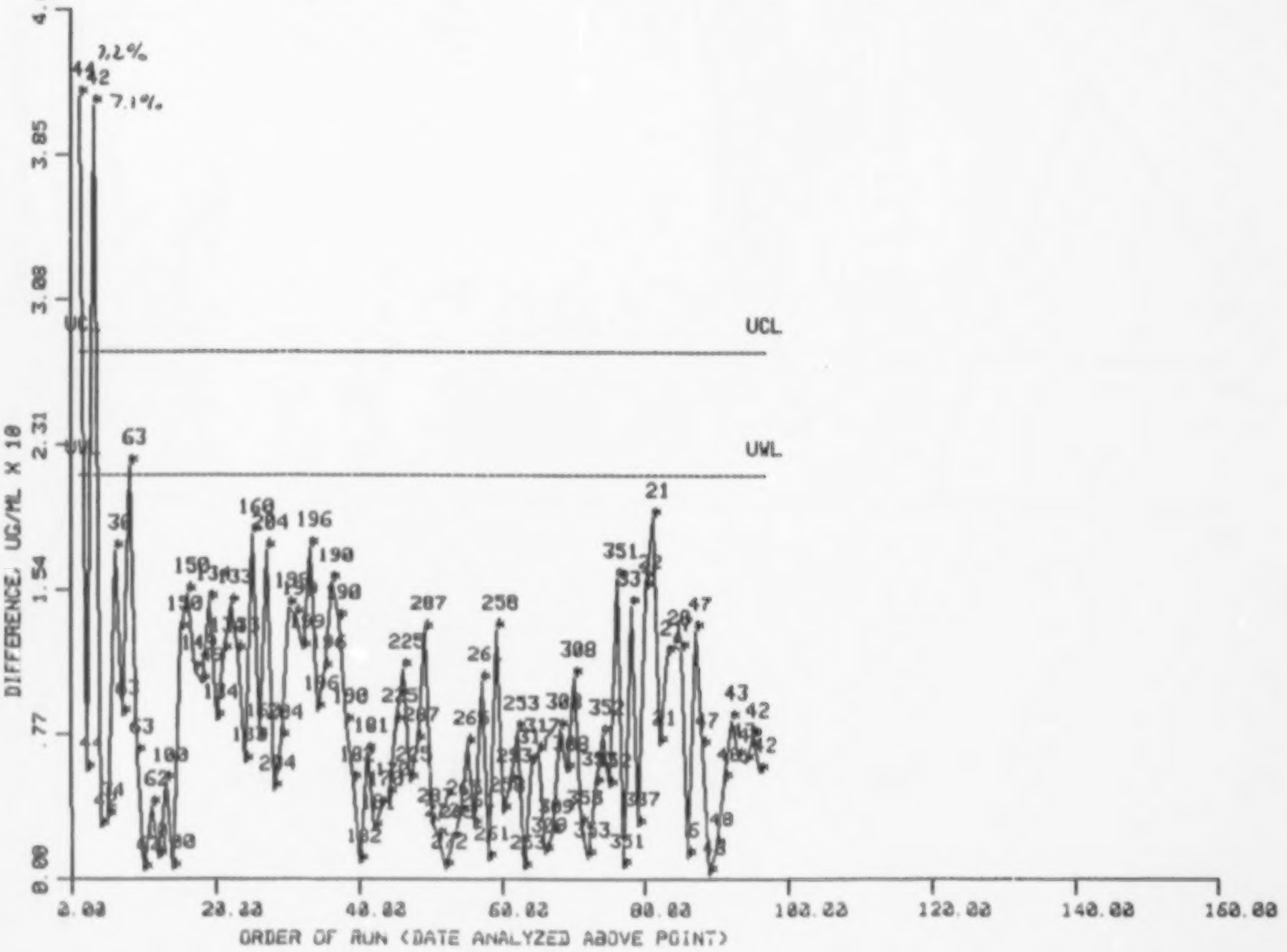


A28

# QC CL SPK 198-1 96 UG/ML

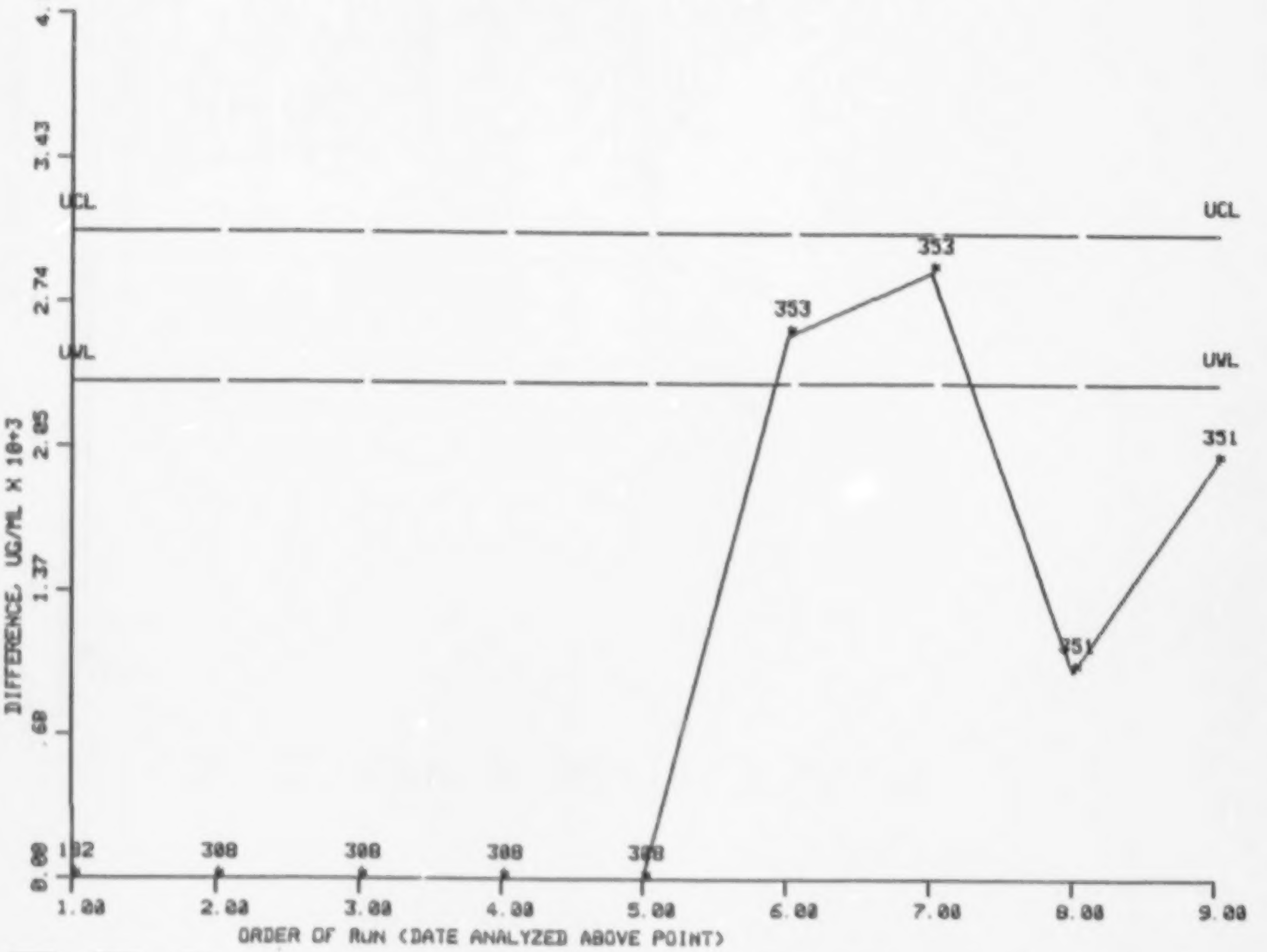


# QC CL SPK 1.96-11.3 UG/ML

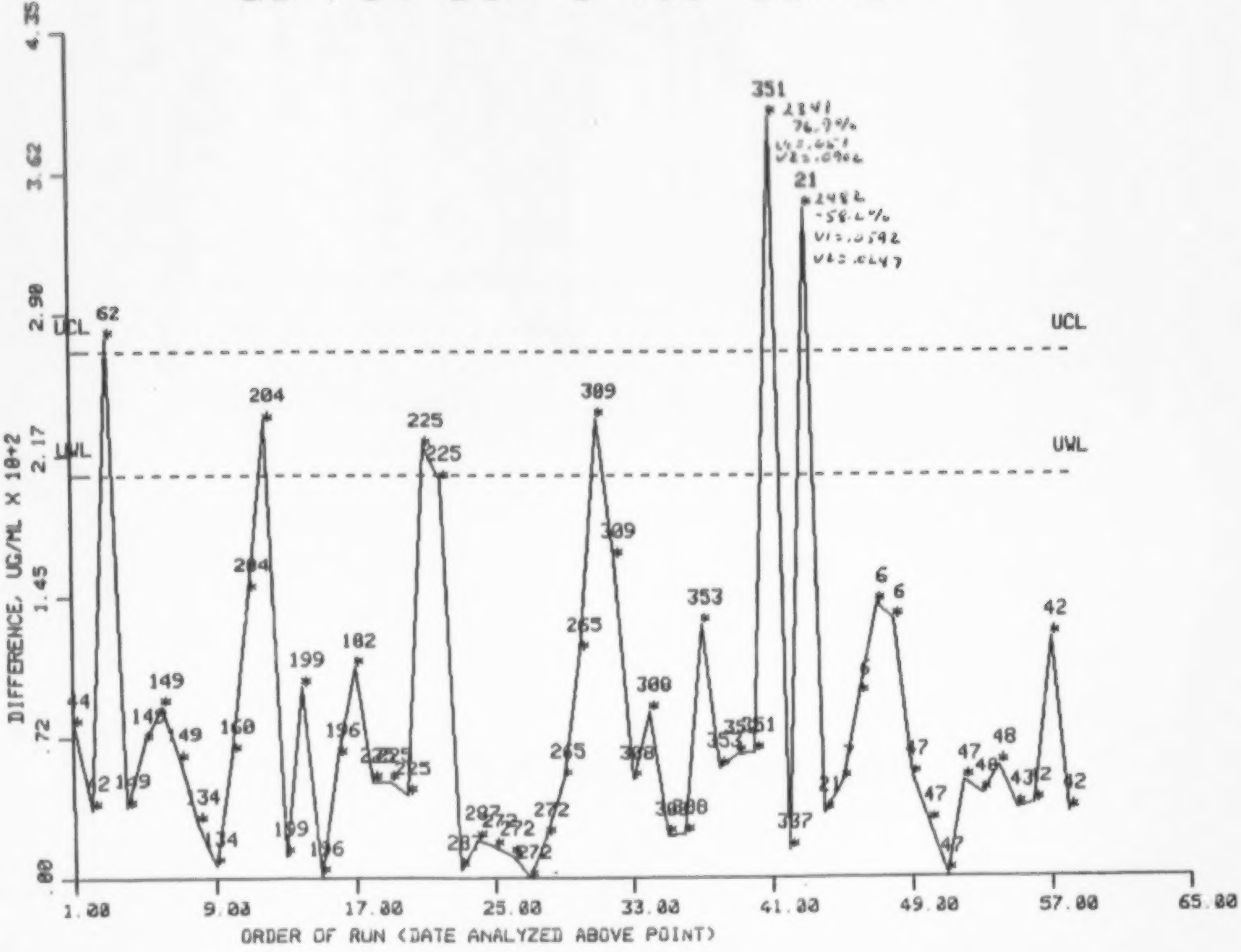


A30

# QC NO2 DUP 0- .371 UG/ML



# QC PO4 DUP 0- 99 UG/ML

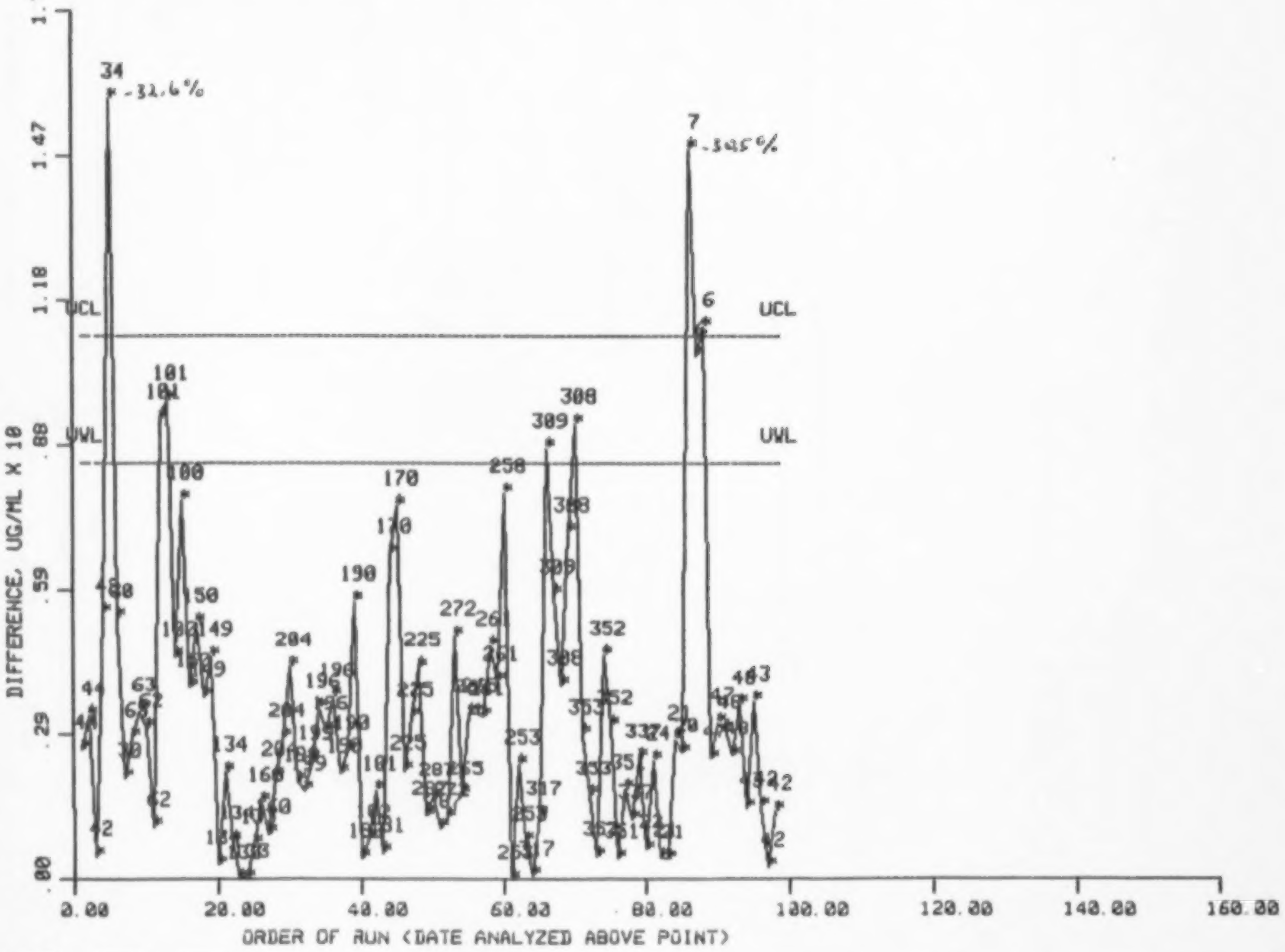


2841
76.7%
V1=.0651
V2=.0906

2482
-58.6%
V1=.0542
V2=.0247

A32

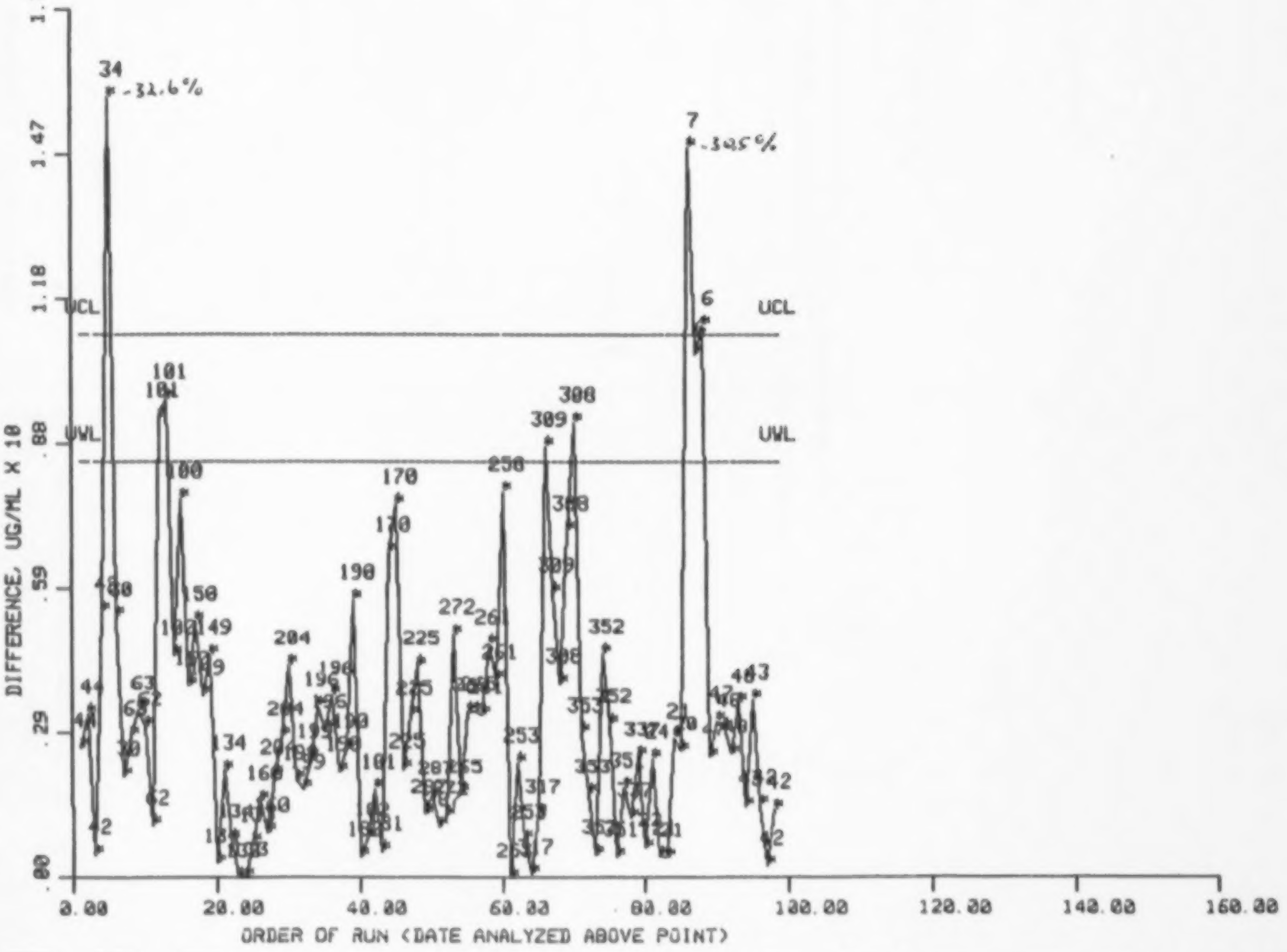
# QC PO4 SPK 0-.99 UG/ML



#17

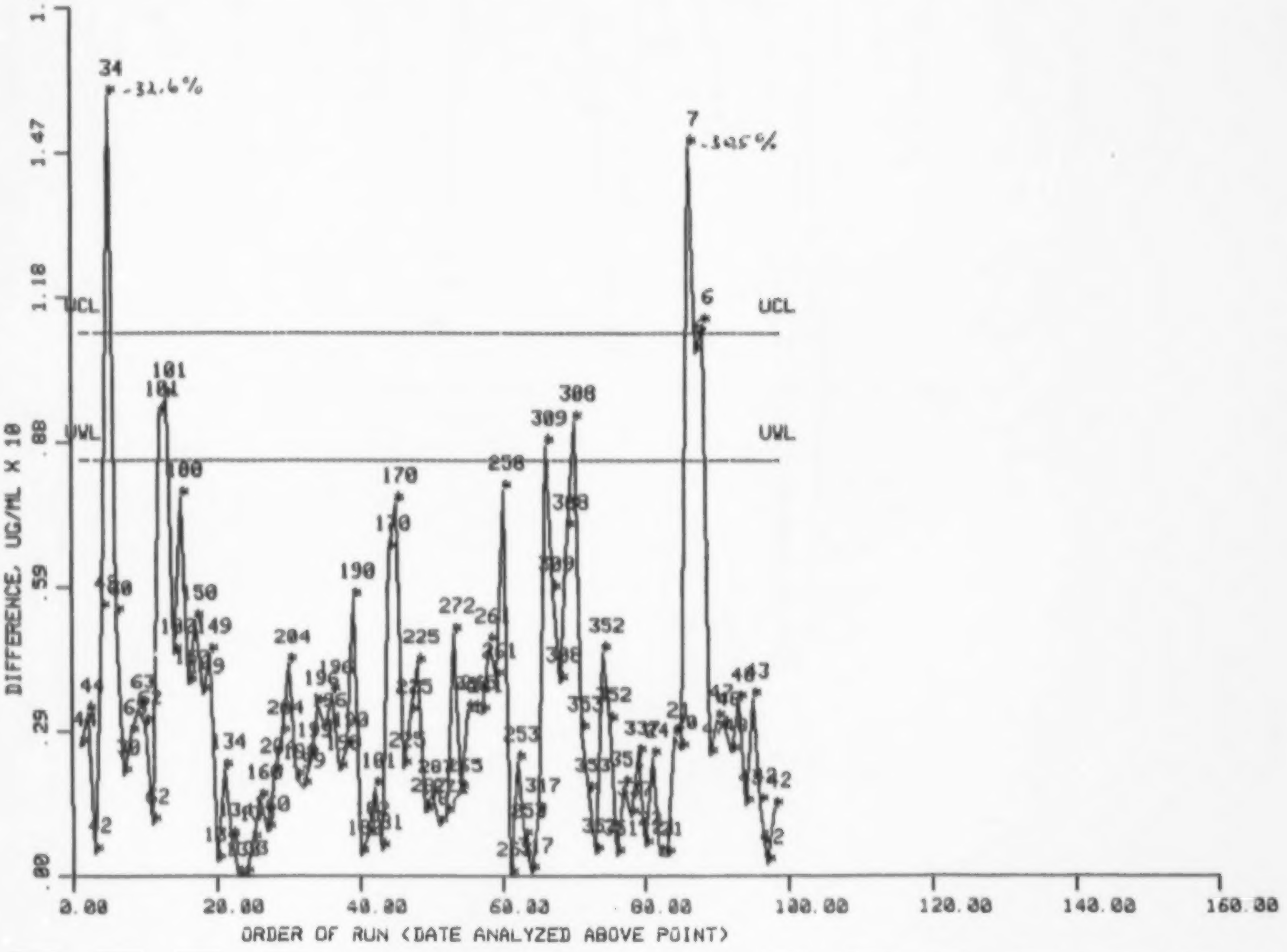
A32

# QC PO4 SPK 0-.99 UG/ML

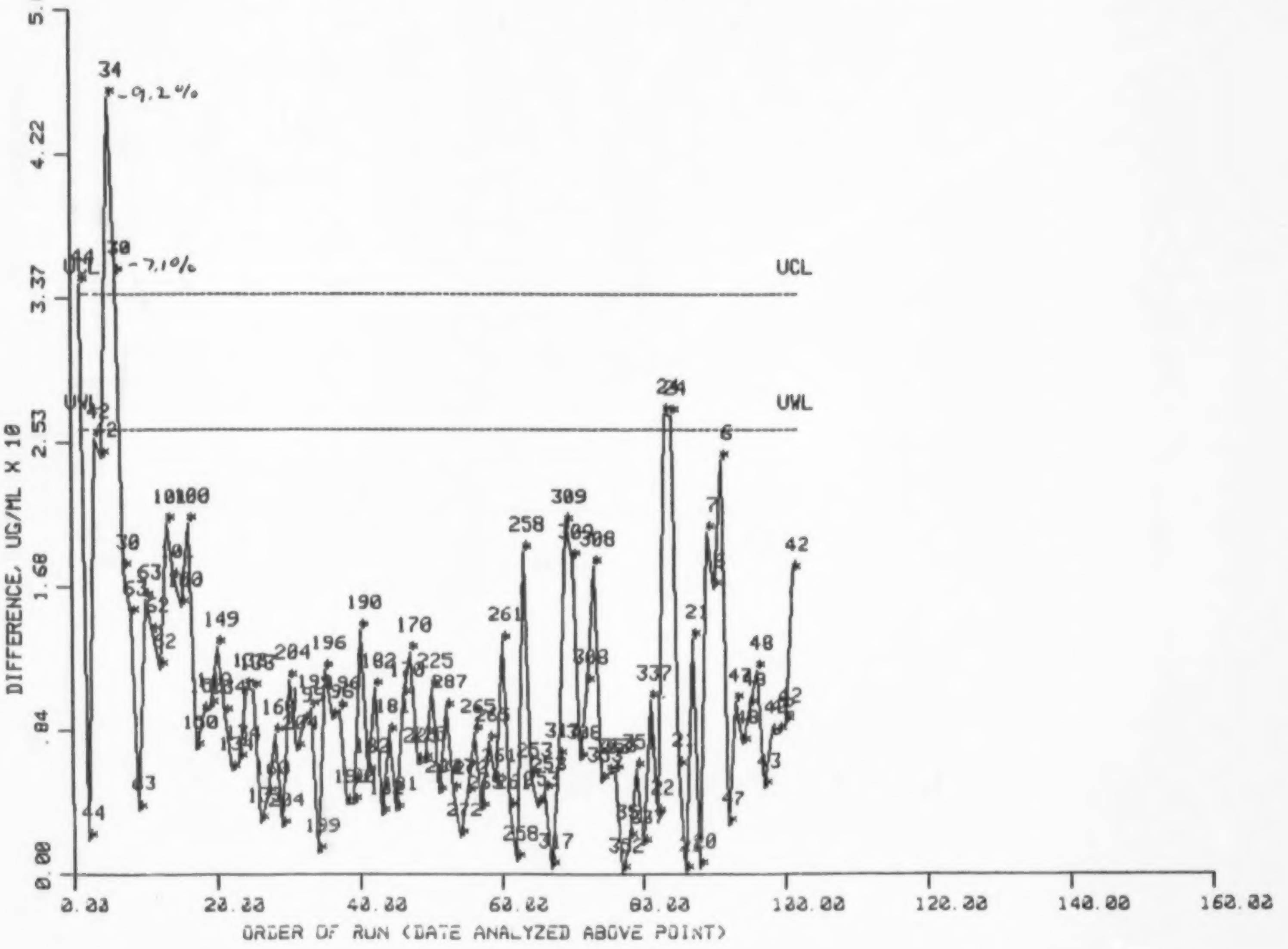


A32

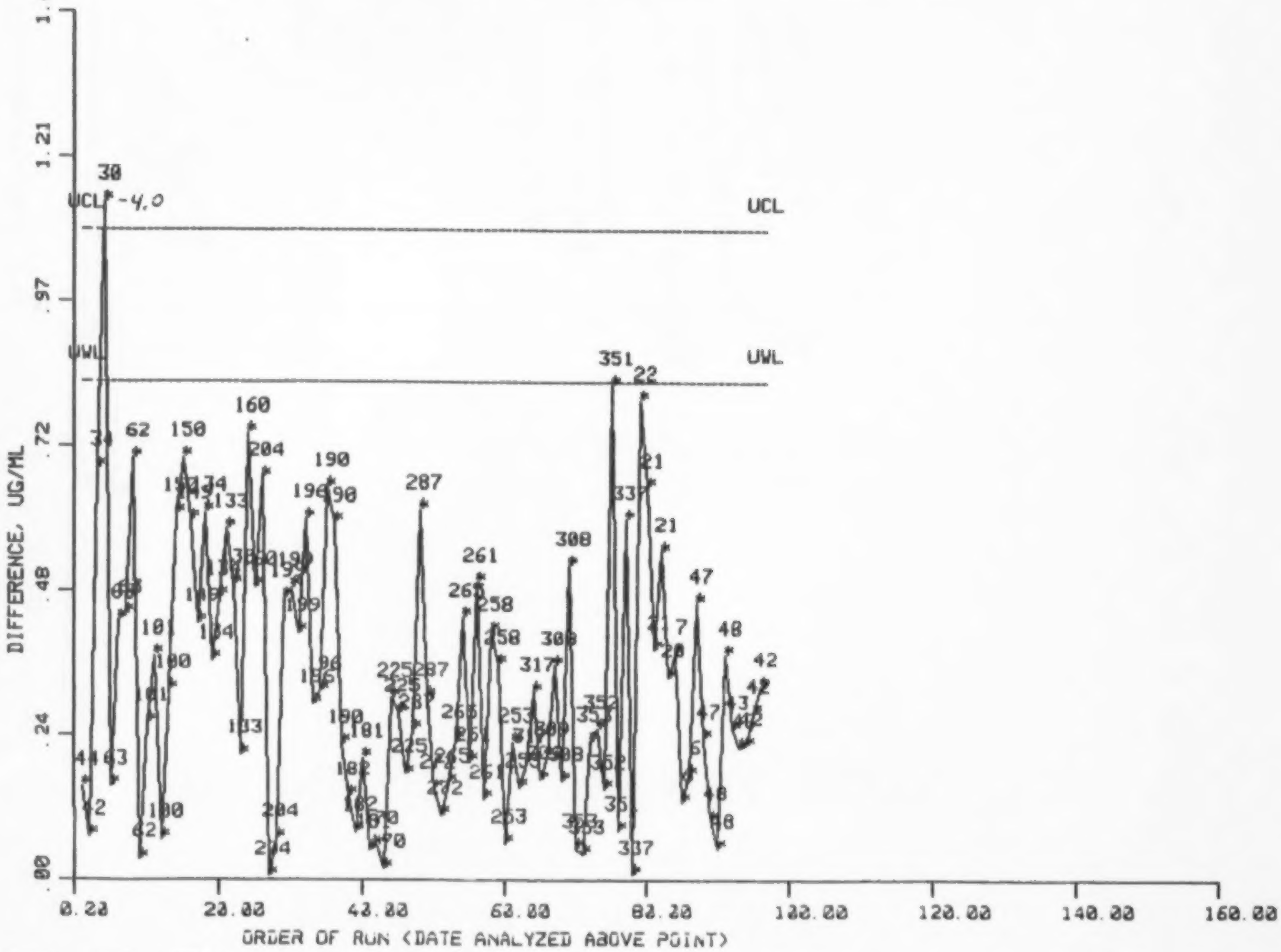
# QC PO4 SPK 0-.99 UG/ML



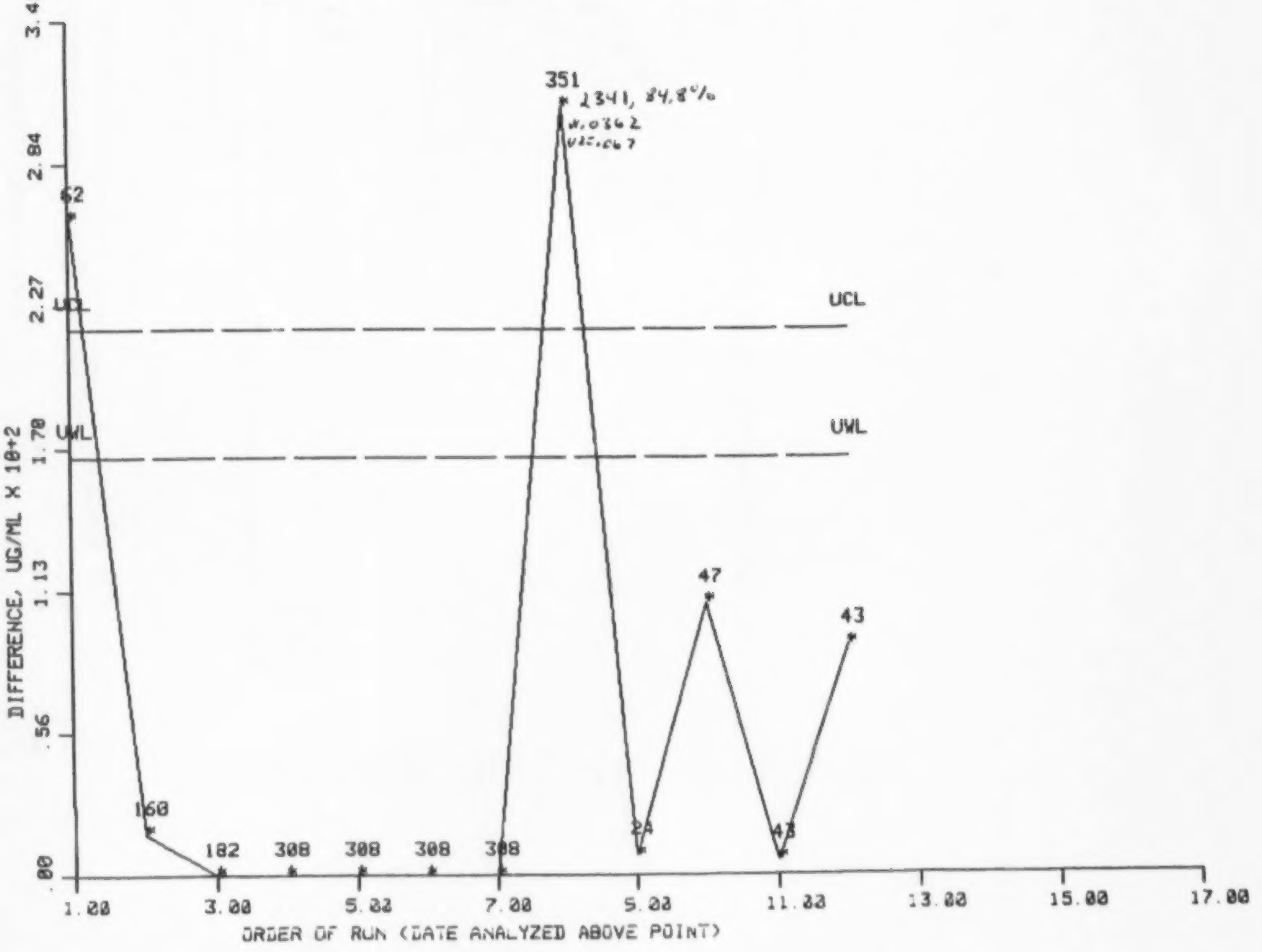
# QC PO4 SPK 99-9.84 UG/ML



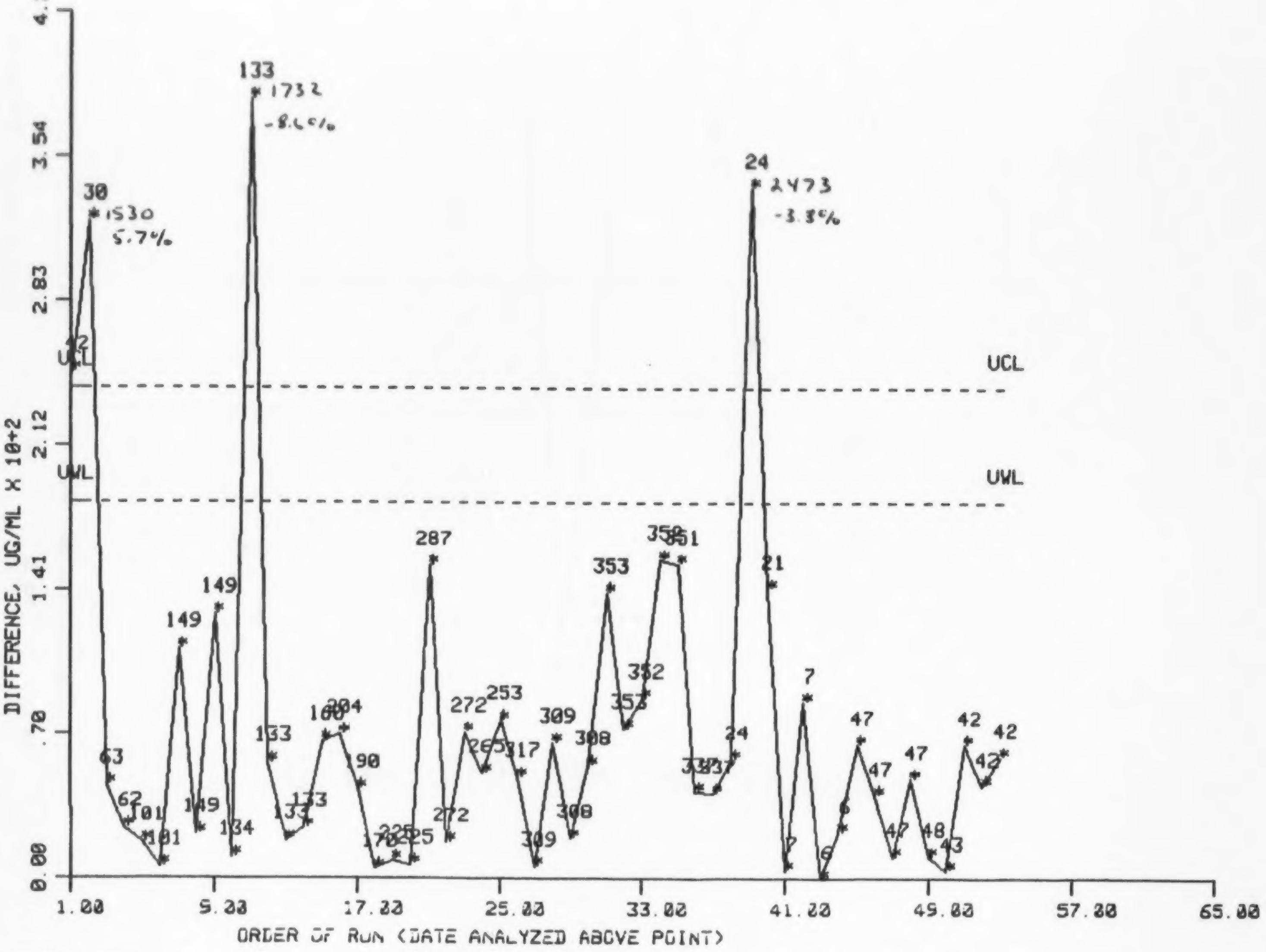
# QC PO4 SPK 9.84-56.6 UG/ML



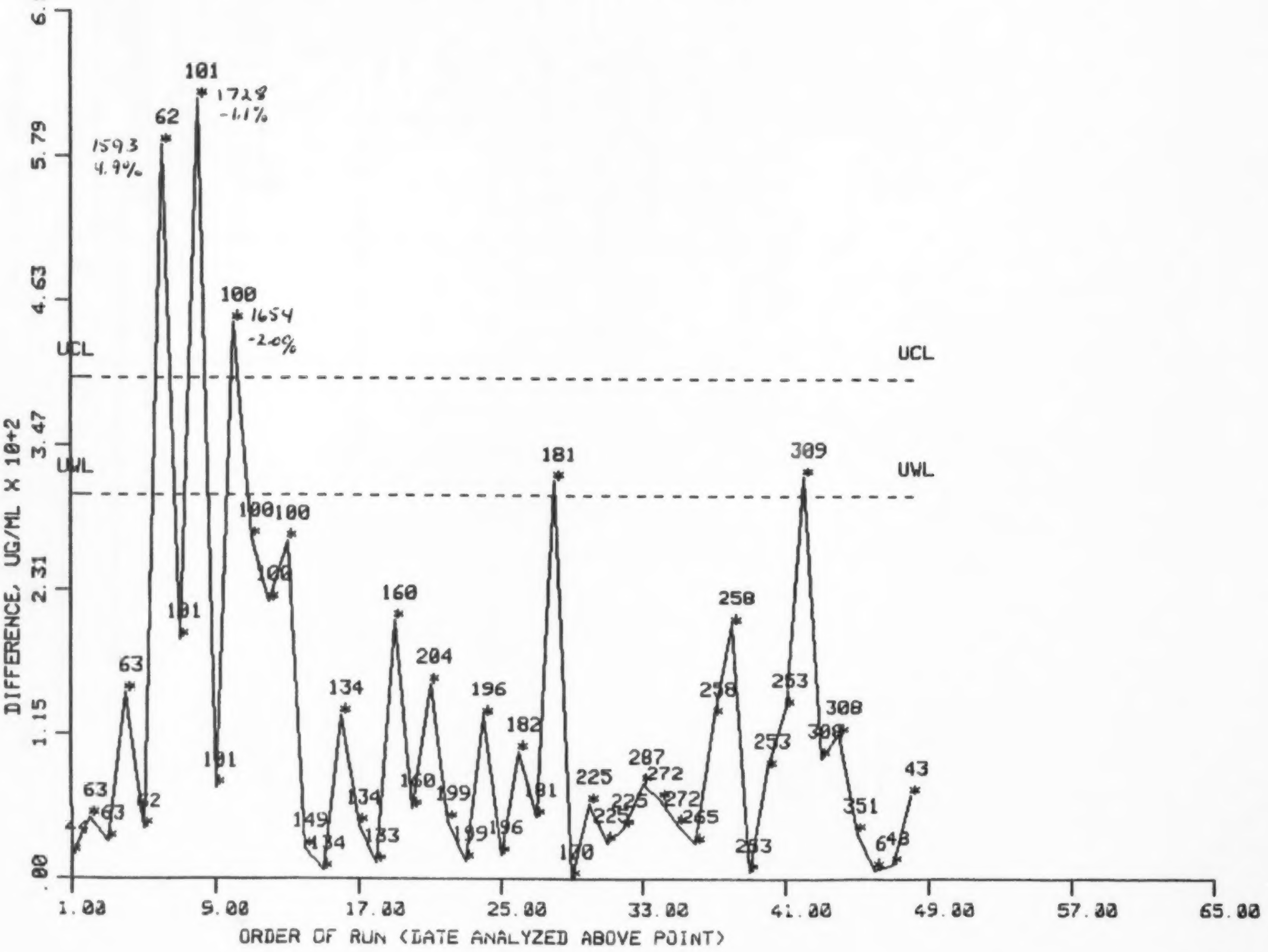
# QC BR DUP 0-.99 UG/ML



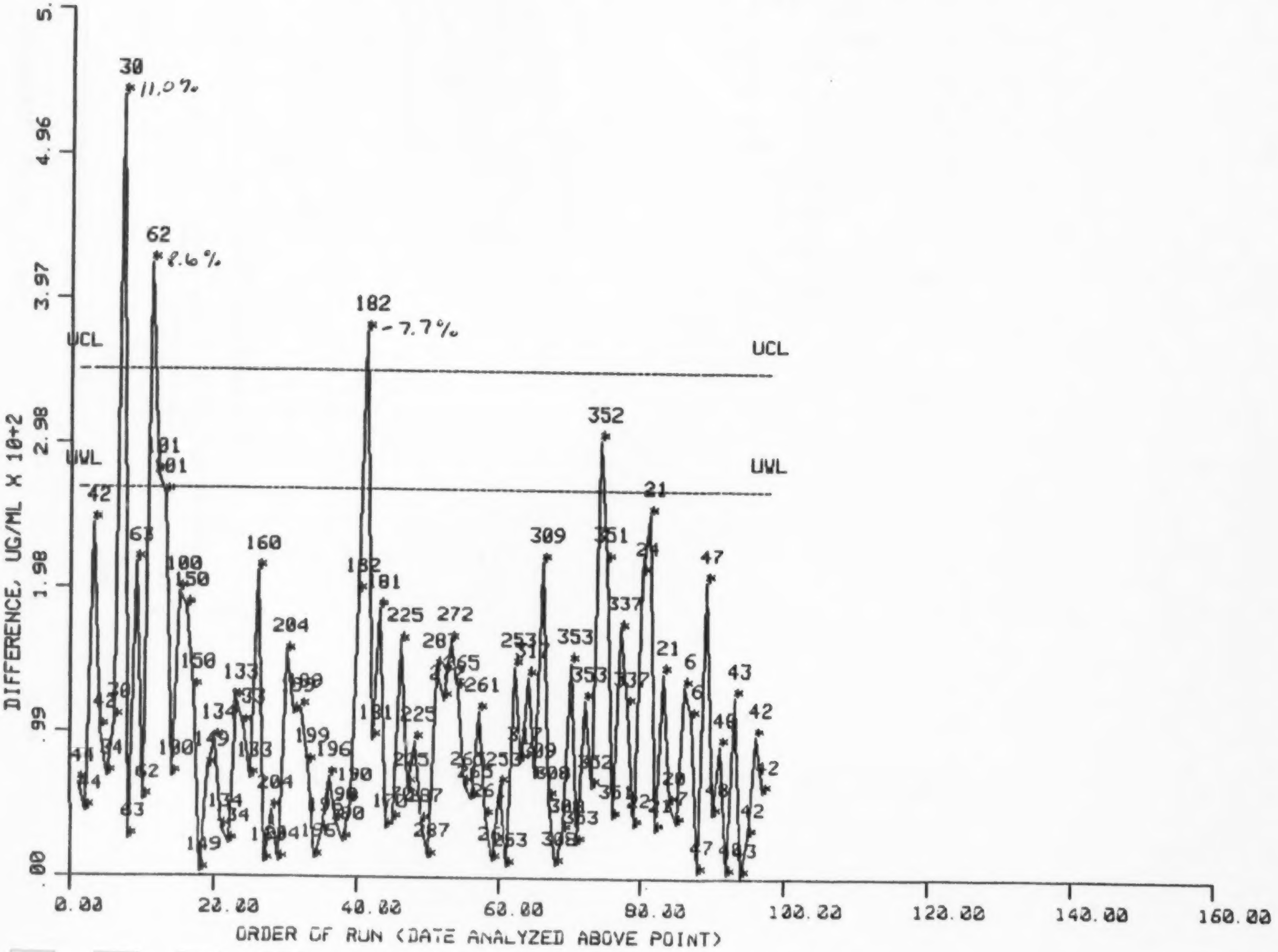
# QC NO3 DUP 0-.99 UG/ML



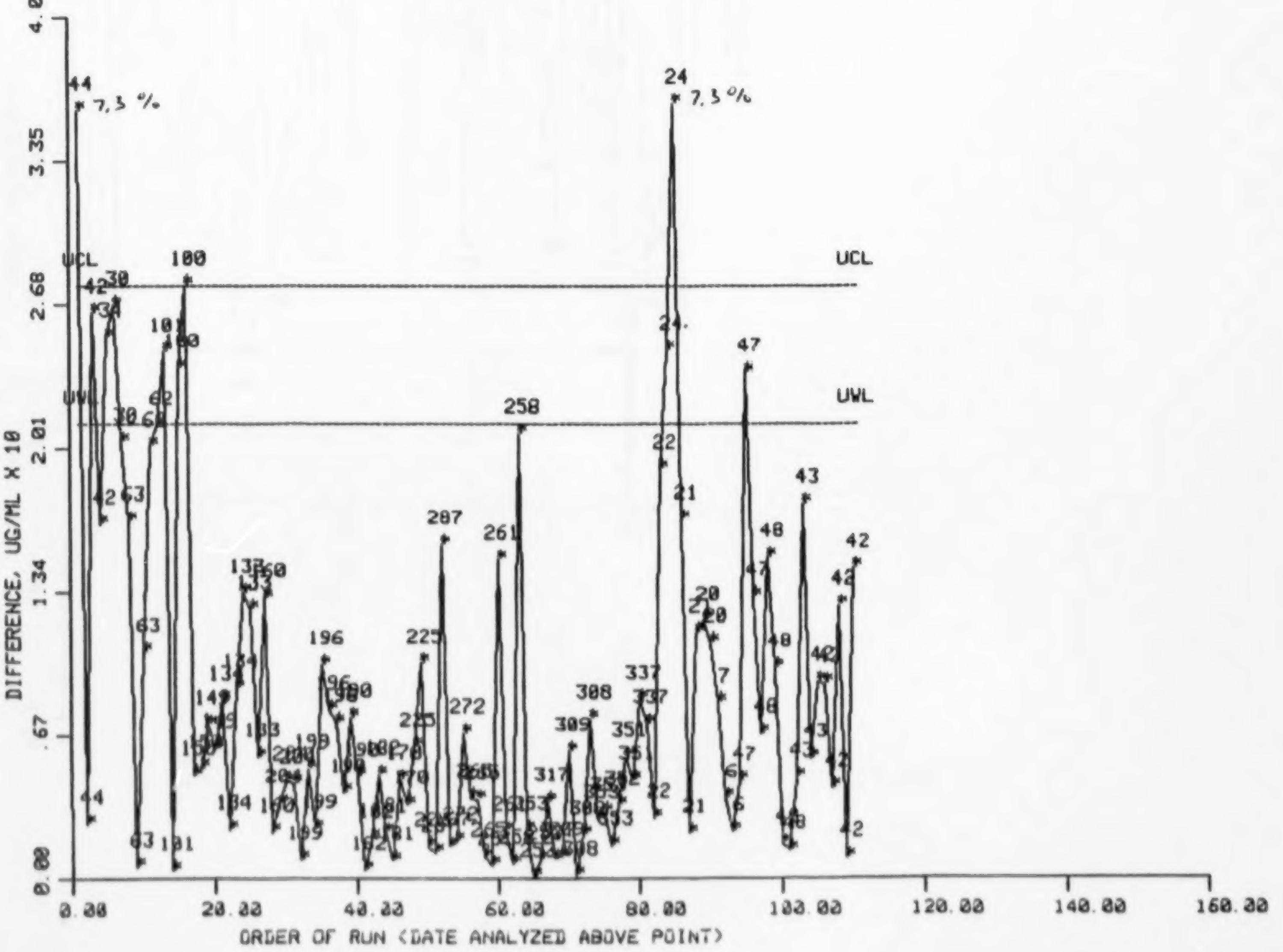
# QC NO3 DUP 99-9.84 UG/ML



# QC NO3 SPK 0- .99 UG/ML

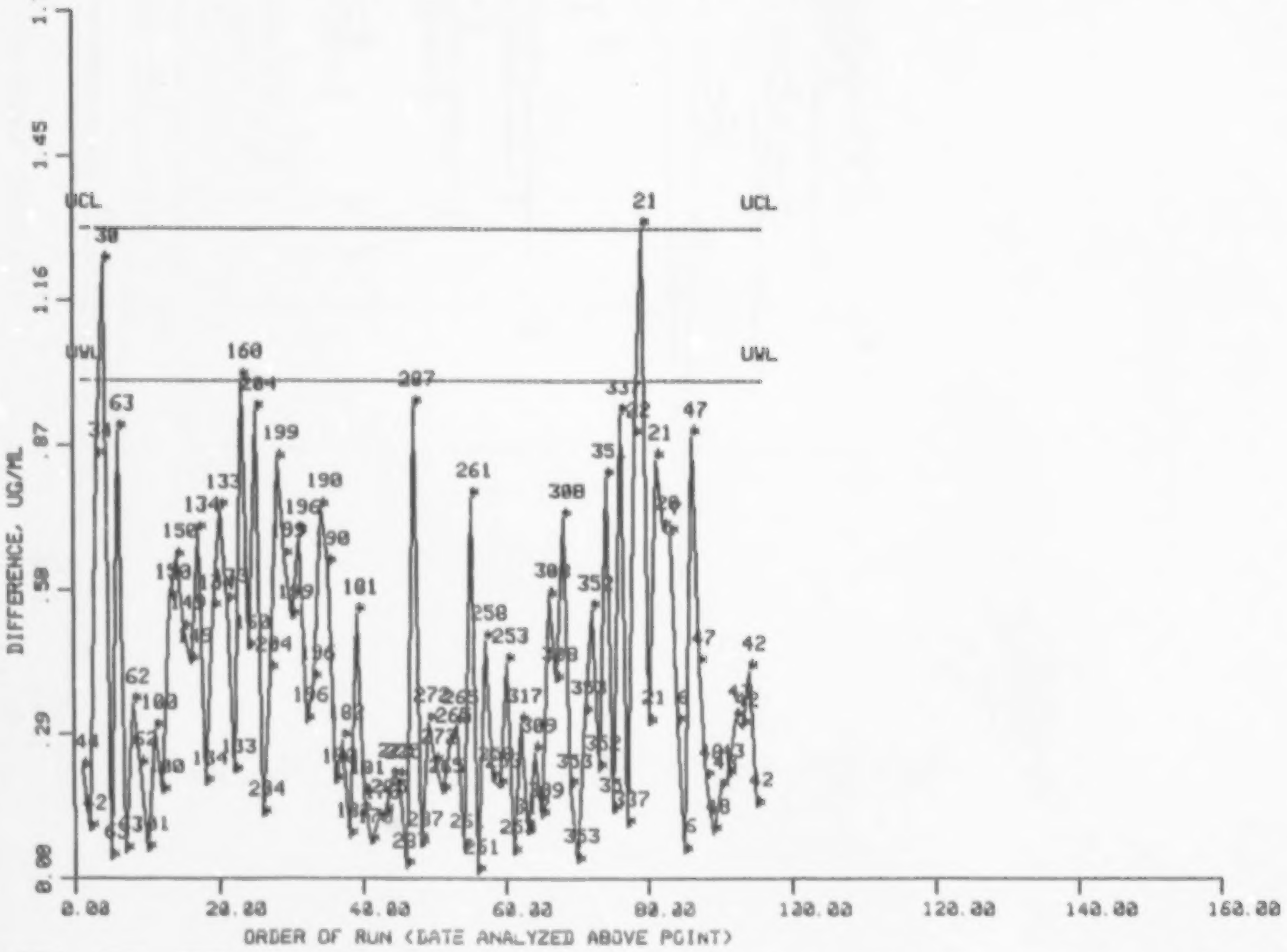


# QC NO3 SPK 99-9 84 UG/ML

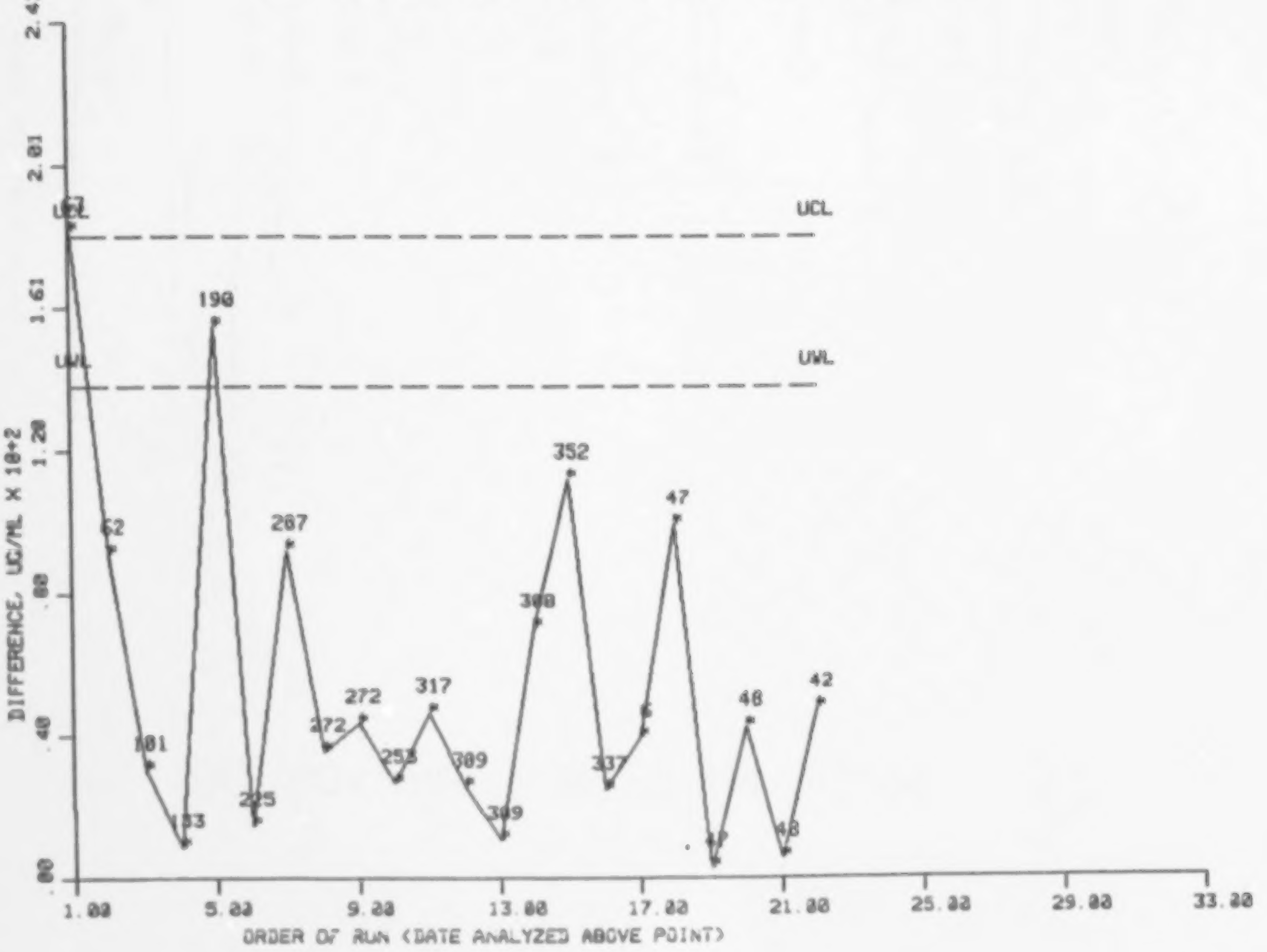


A40

QC NO3 SPK 9.84-56.6 UG/ML

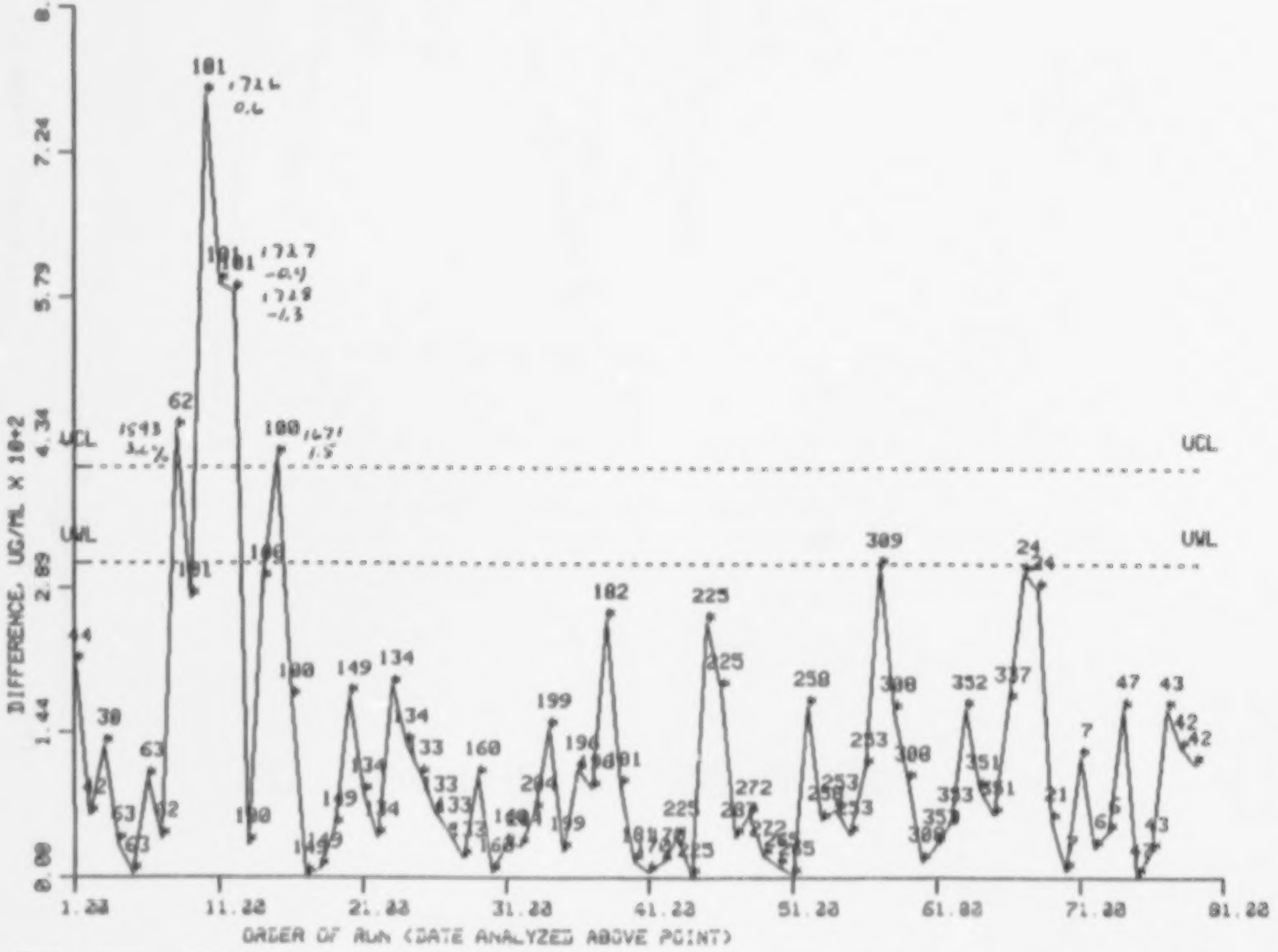


# QC SO4 DUP 0-.99 UG/ML

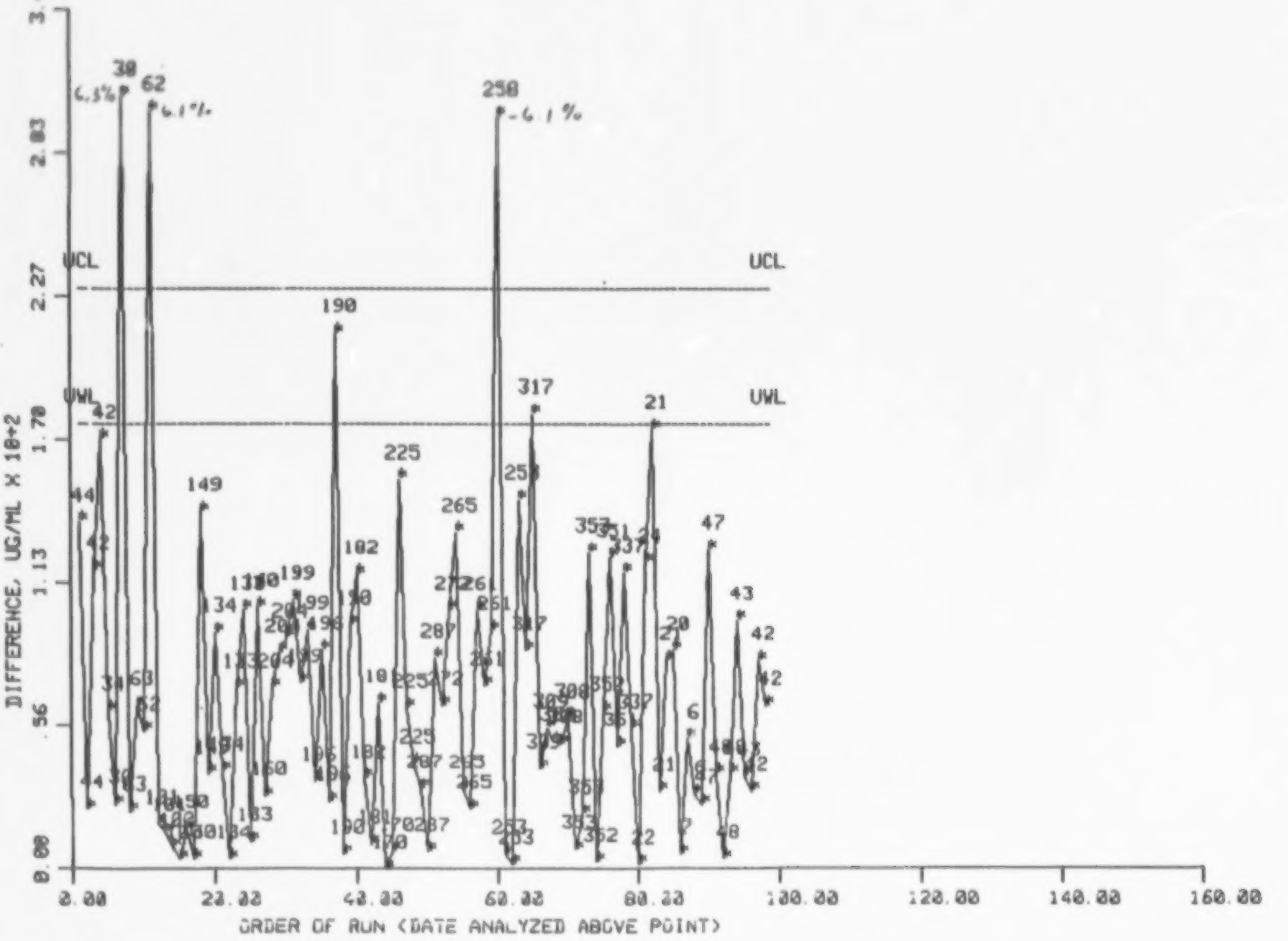


A42

QC SO4 DUP 99-9.84 UG/ML

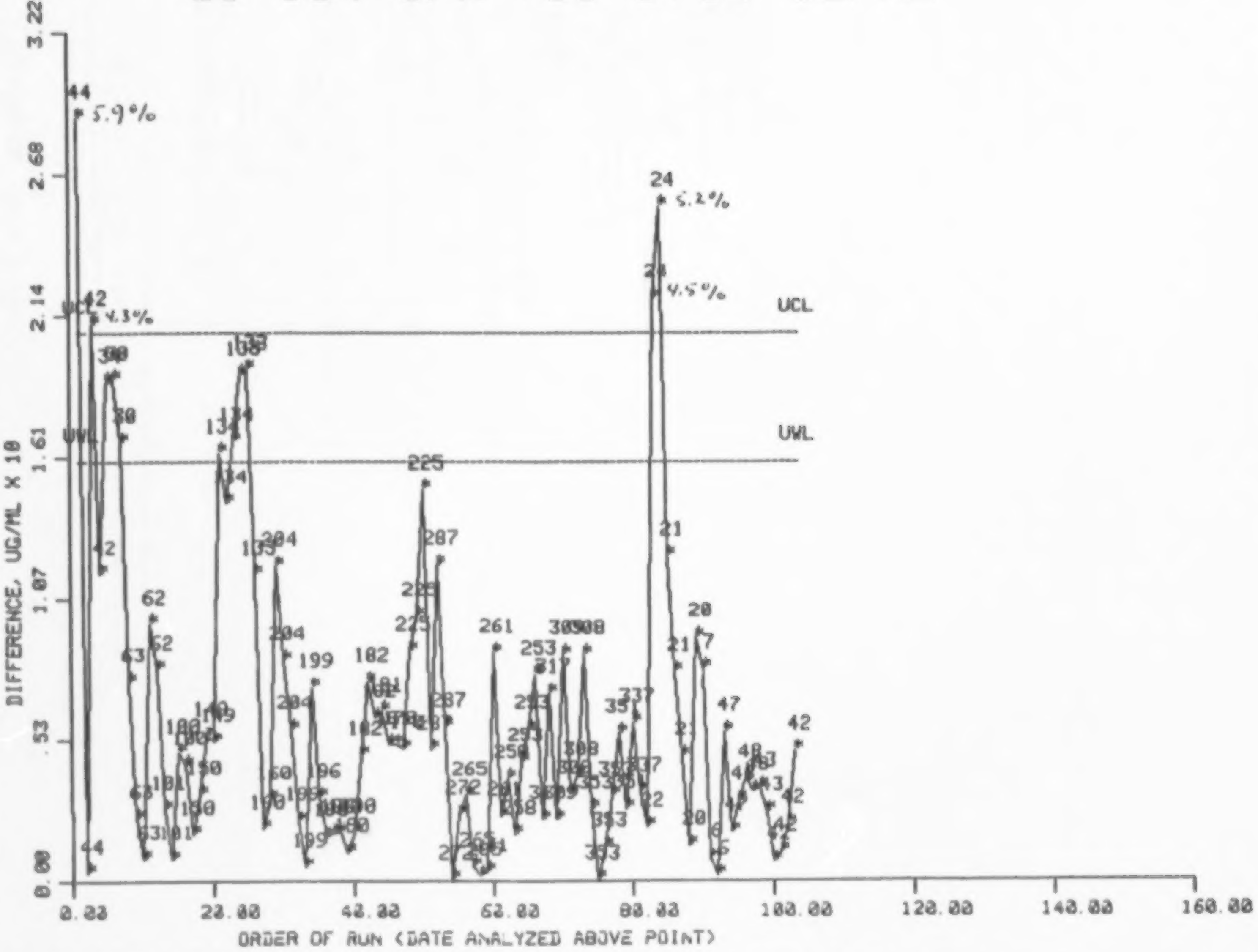


# QC SO4 SPK 0-.99 UG/ML

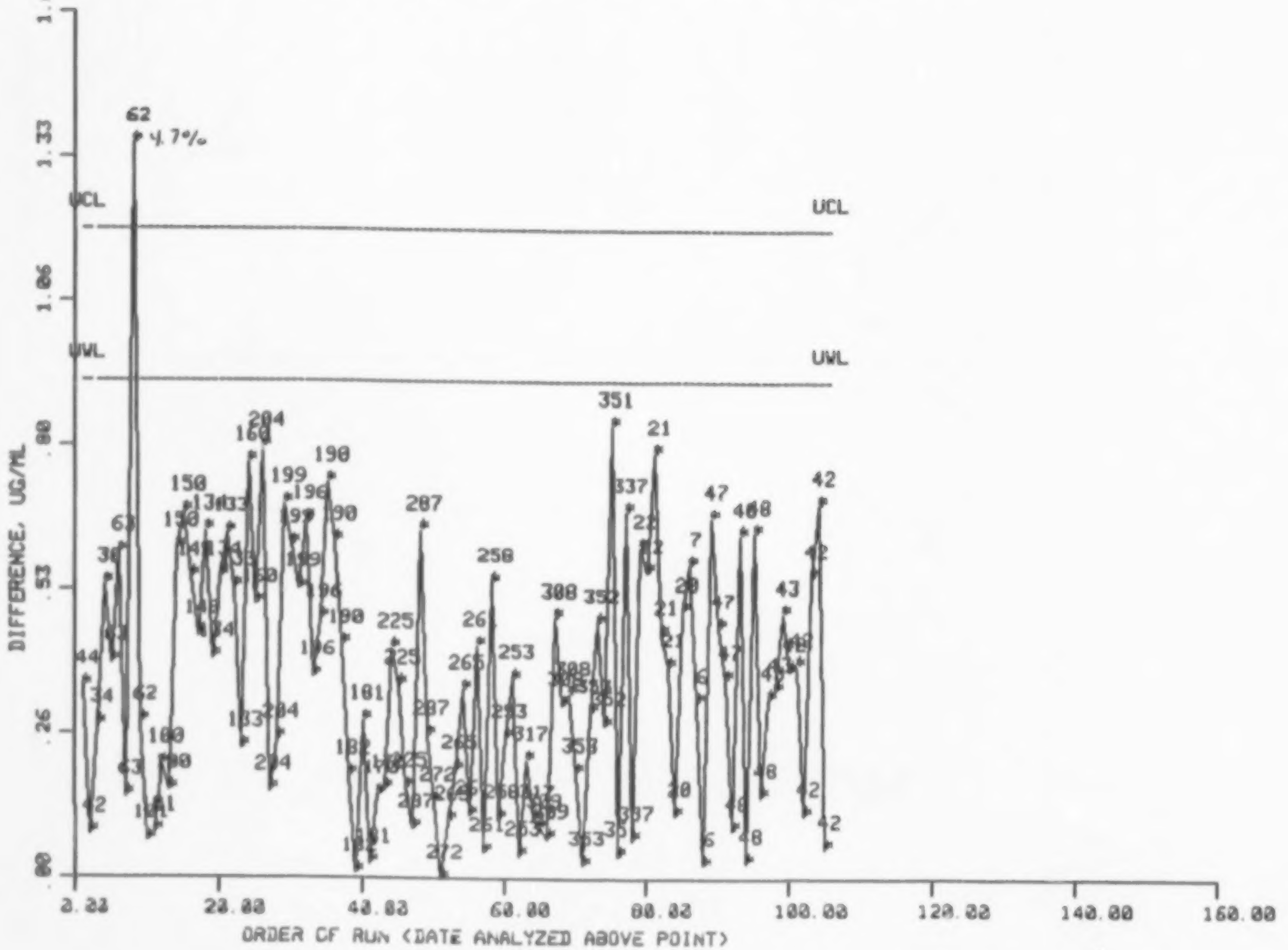


A44

# QC SO4 SPK 99-9.84 UG/ML

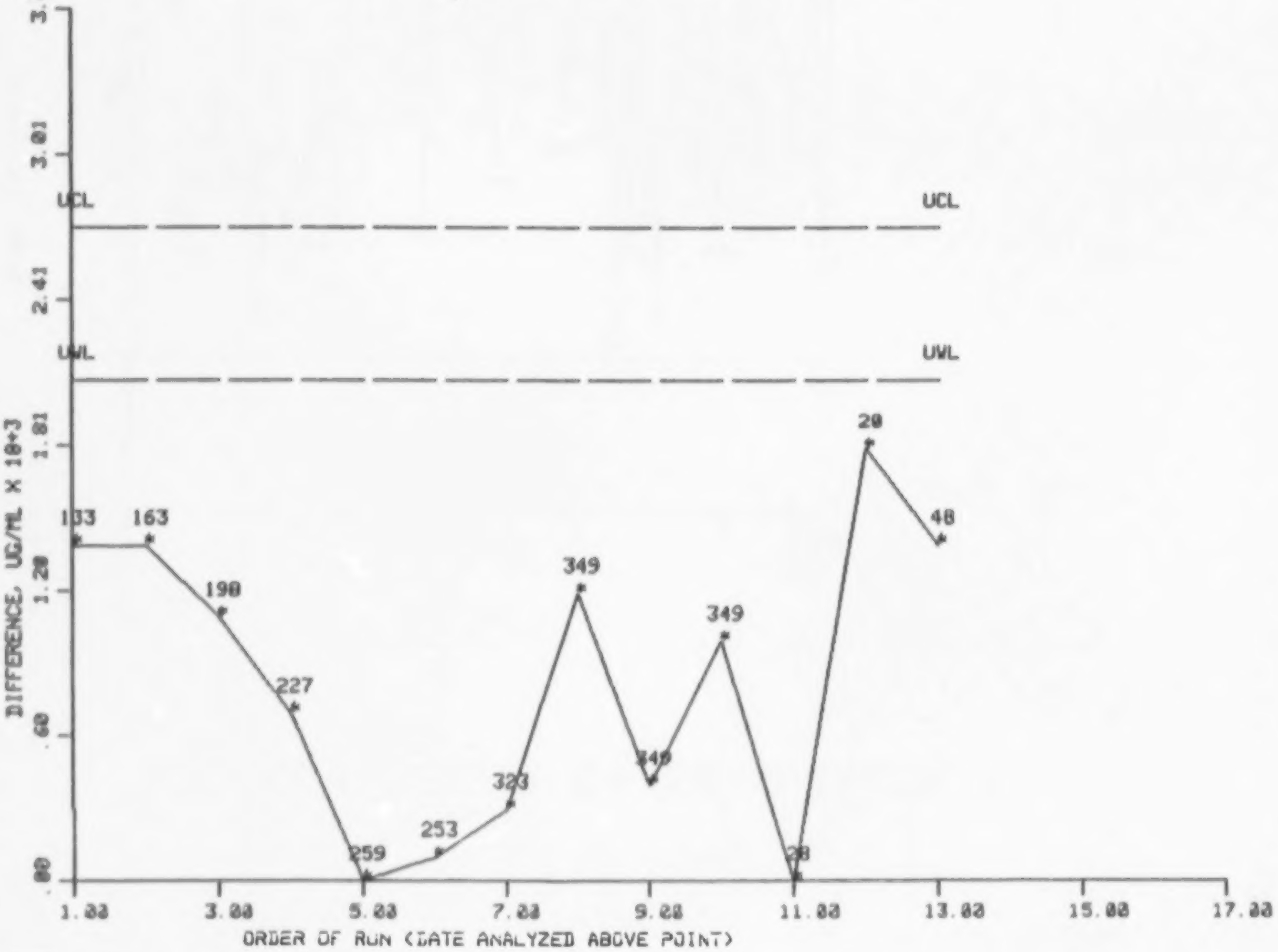


# QC SO4 SPK 9.84-56.6 UG/ML

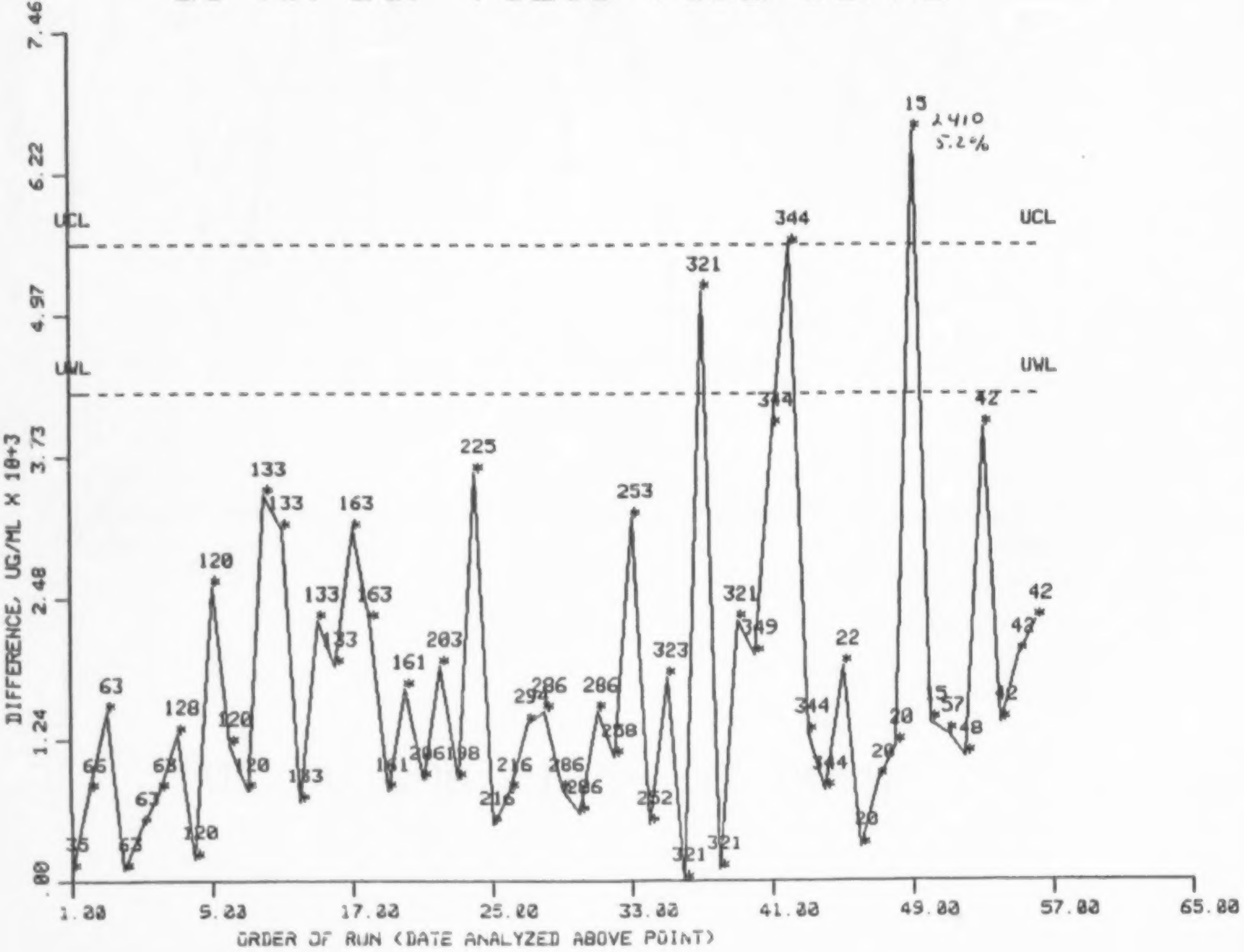


A46

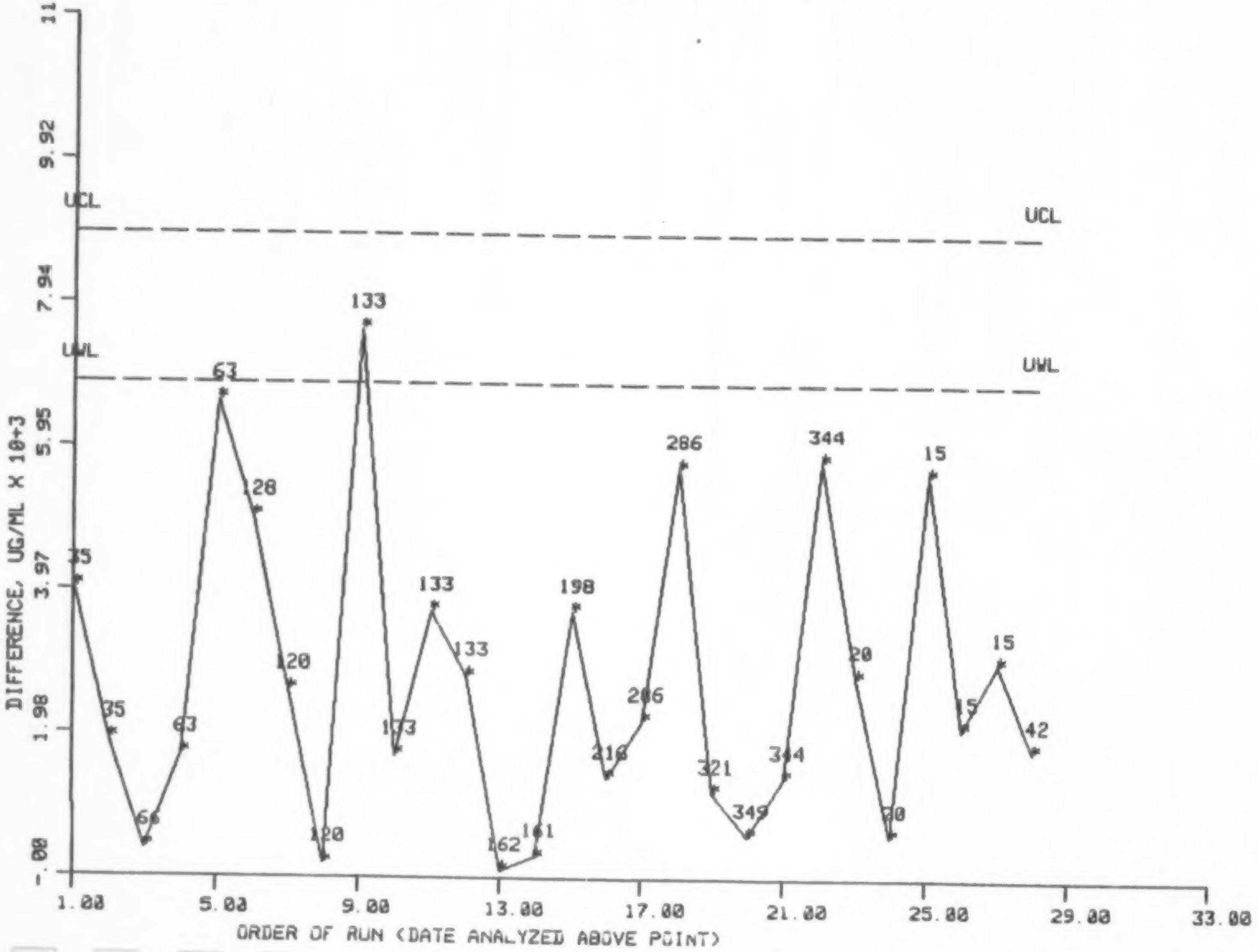
# QC NA DUP 0-.0289 UG/ML



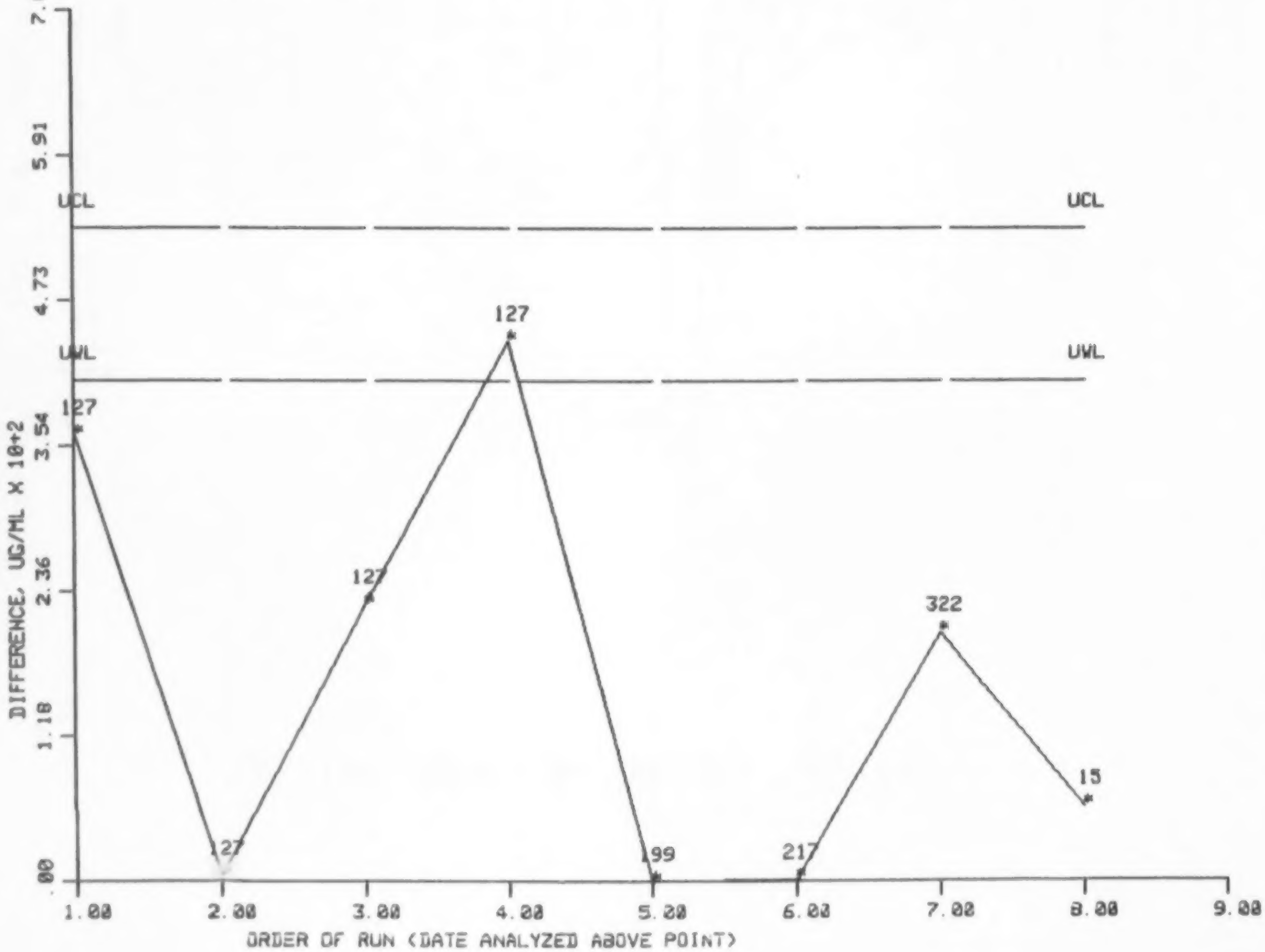
# QC NA DUP 0289- 192 UG/ML



# QC NA DUP .192-.96 UG/ML

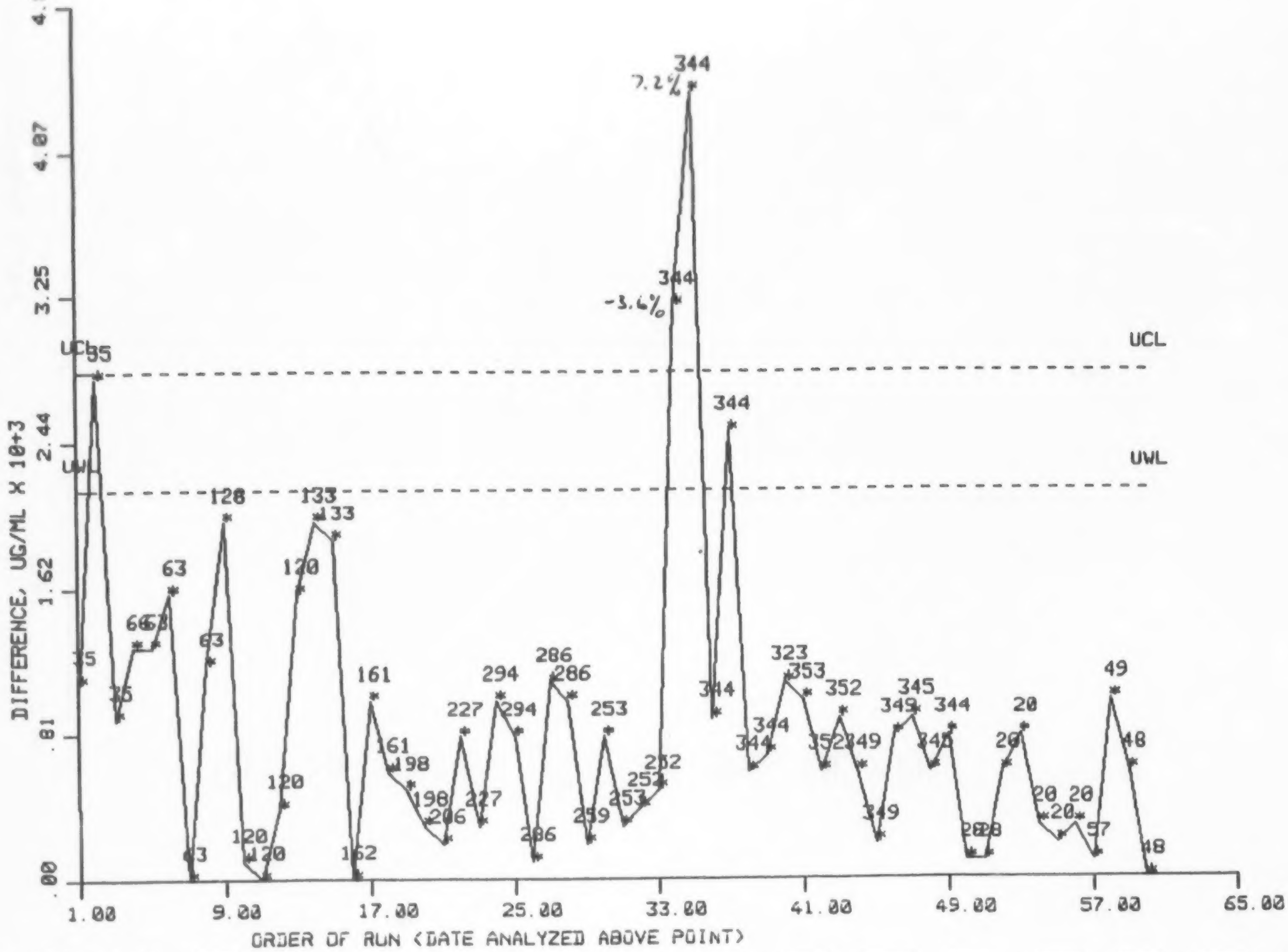


# QC NA DUP .96->.96 UG/ML

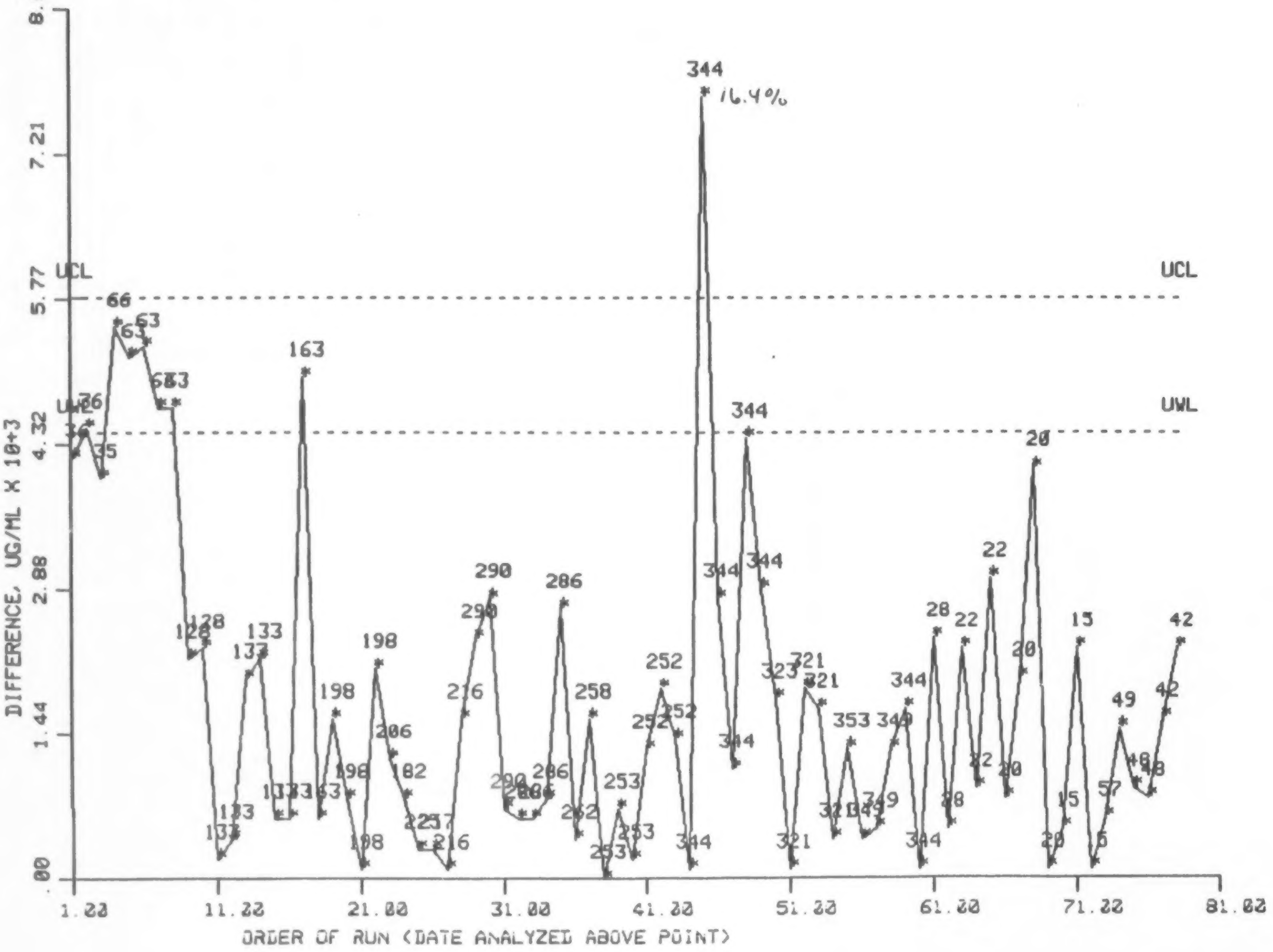


A50

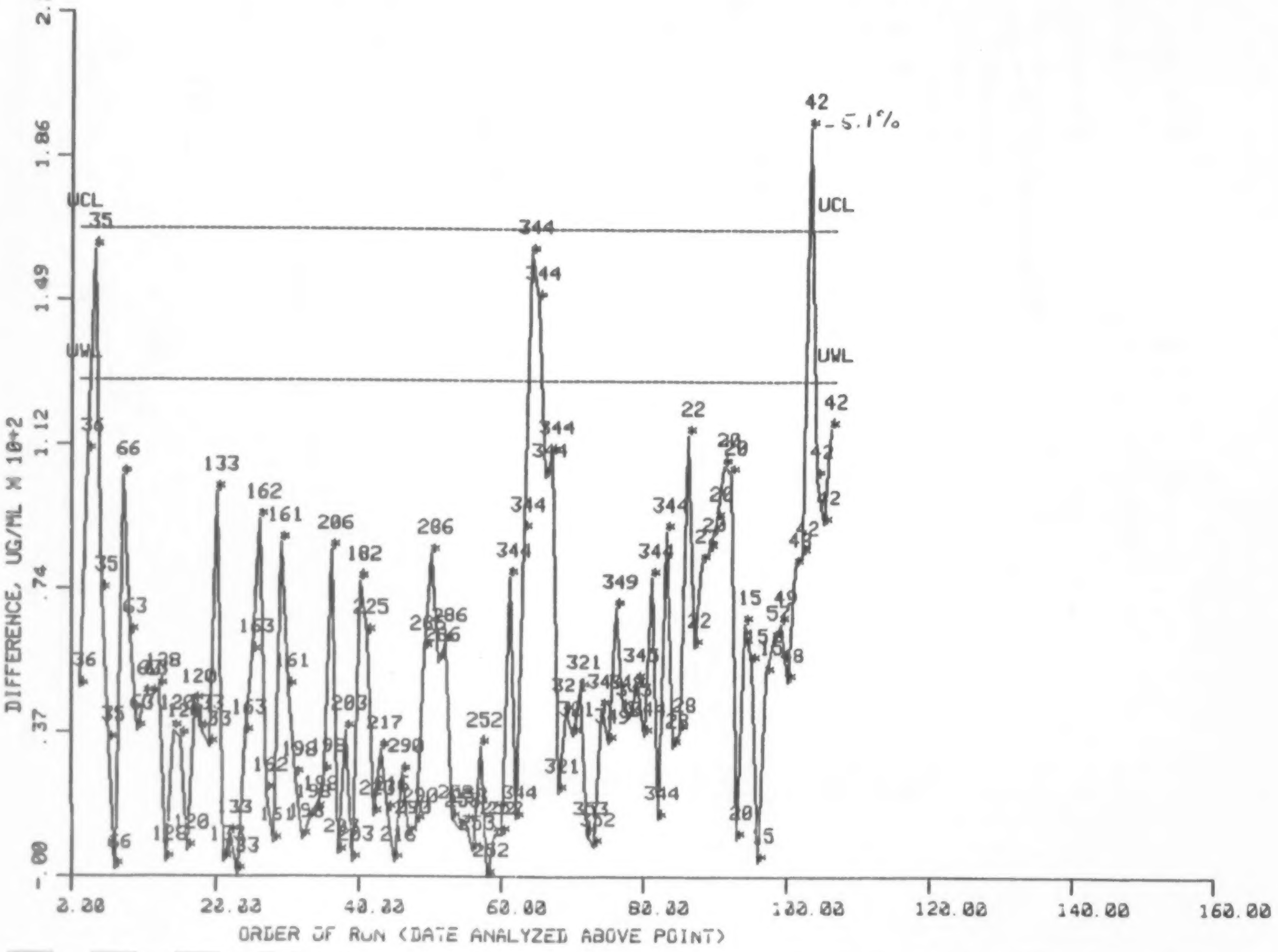
# QC NA SPK 0-.0289 UG/ML



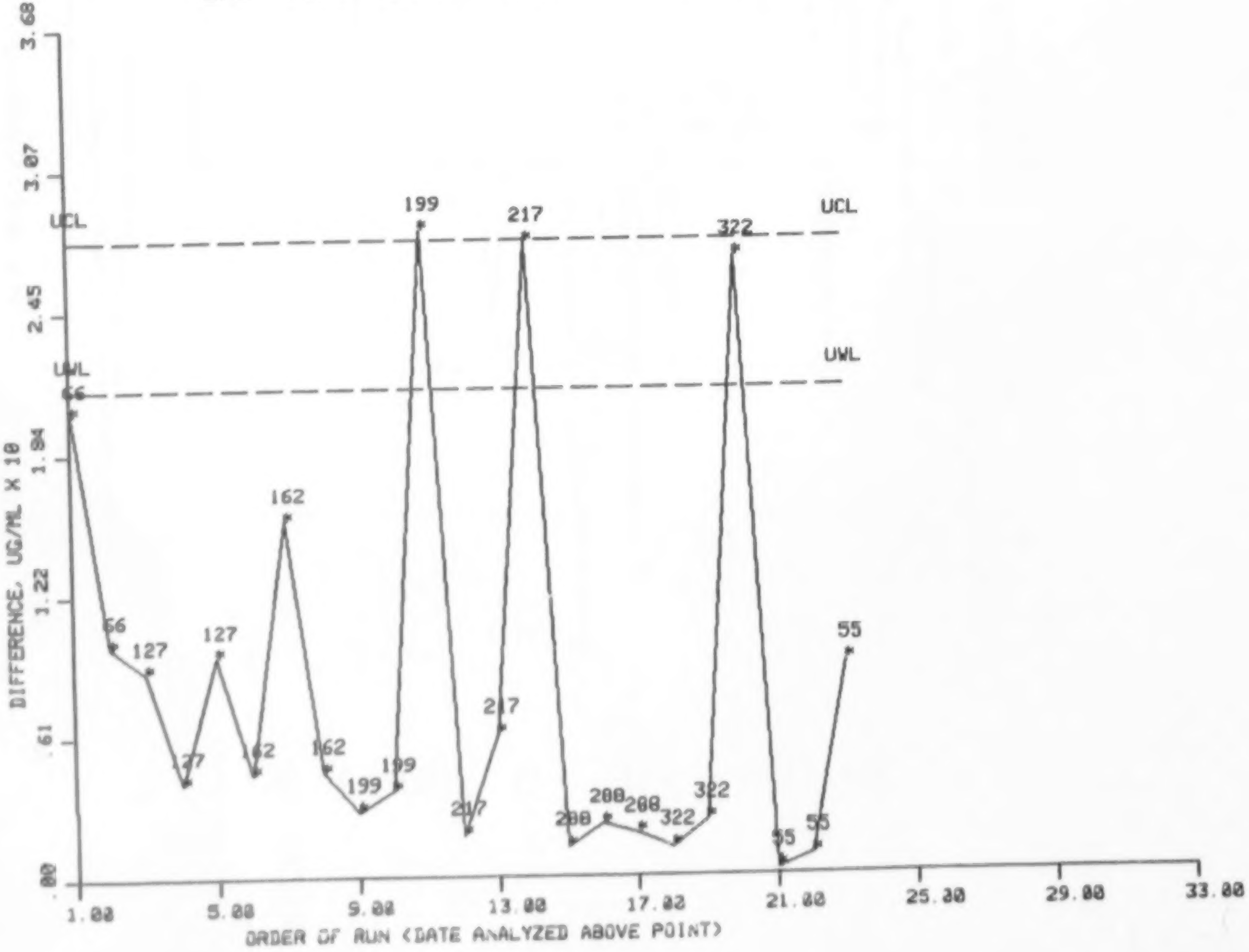
# QC NA SPK 0289- 192 UG/ML



## QC NA SPK .192-.96 UG/ML

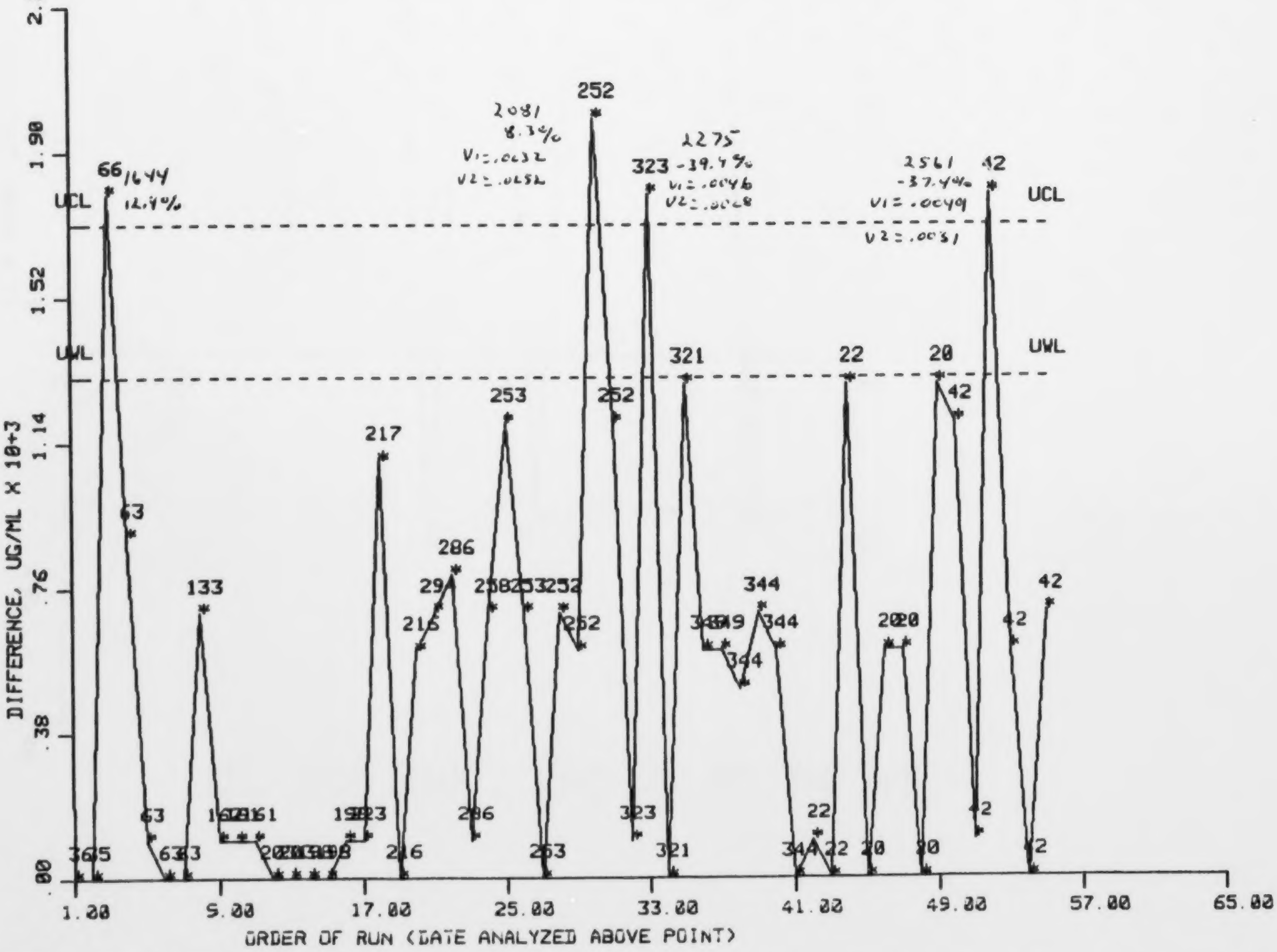


QC NA SPK .96-> .96 UG/ML

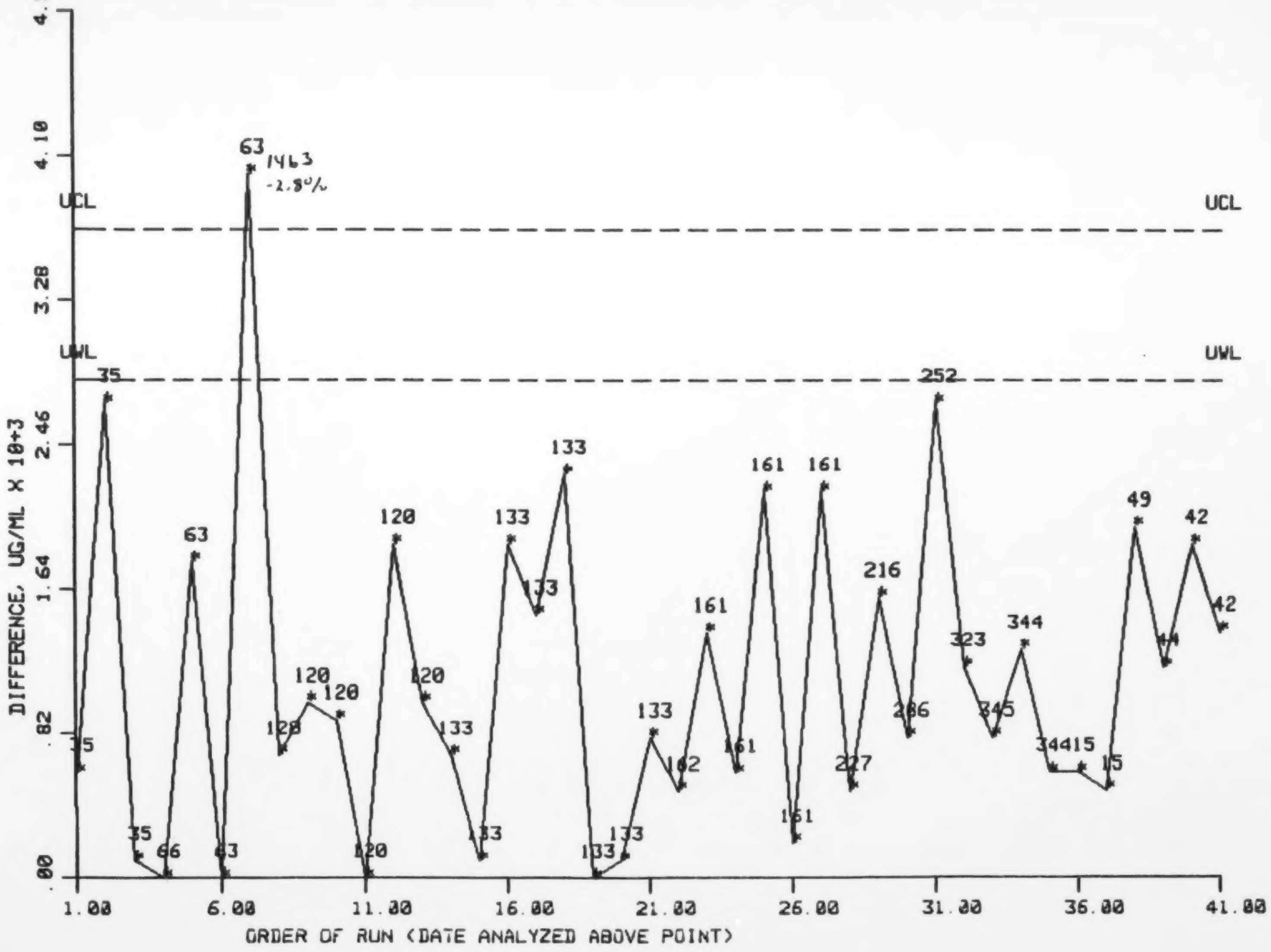


A54

# QC K DUP 0-.0289 UG/ML

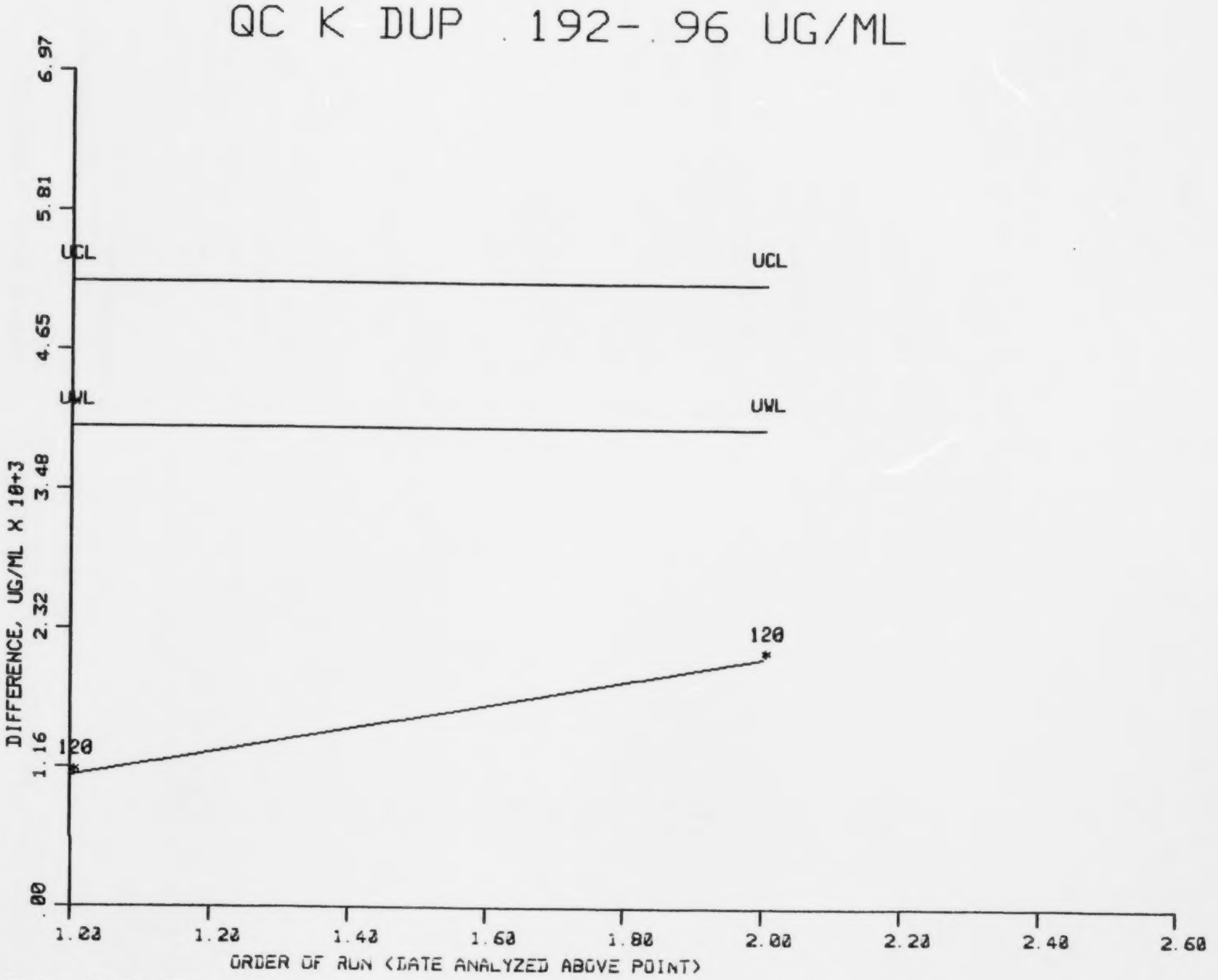


# QC K DUP 0289- 192 UG/ML

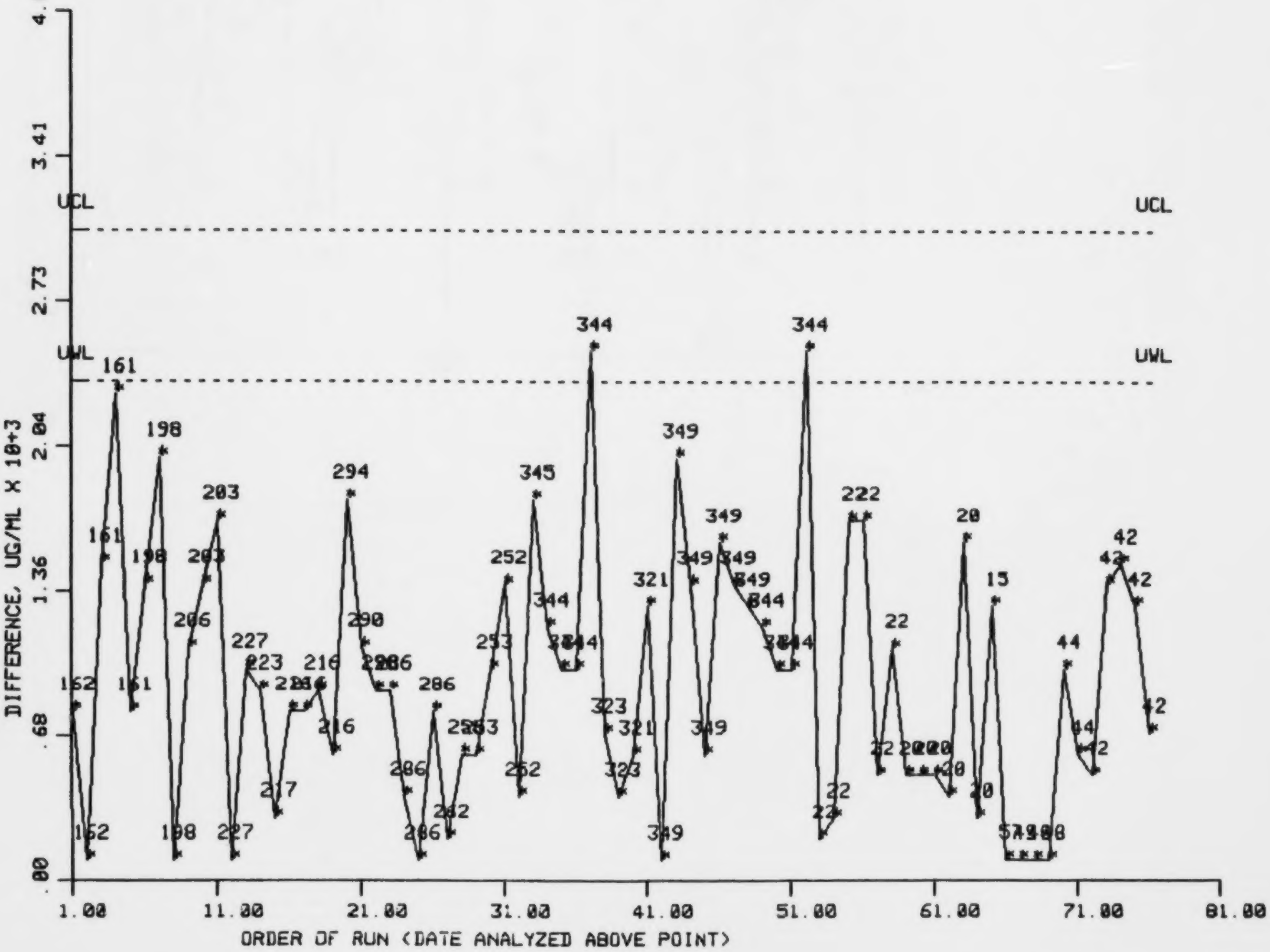


A56

# QC K DUP .192-.96 UG/ML

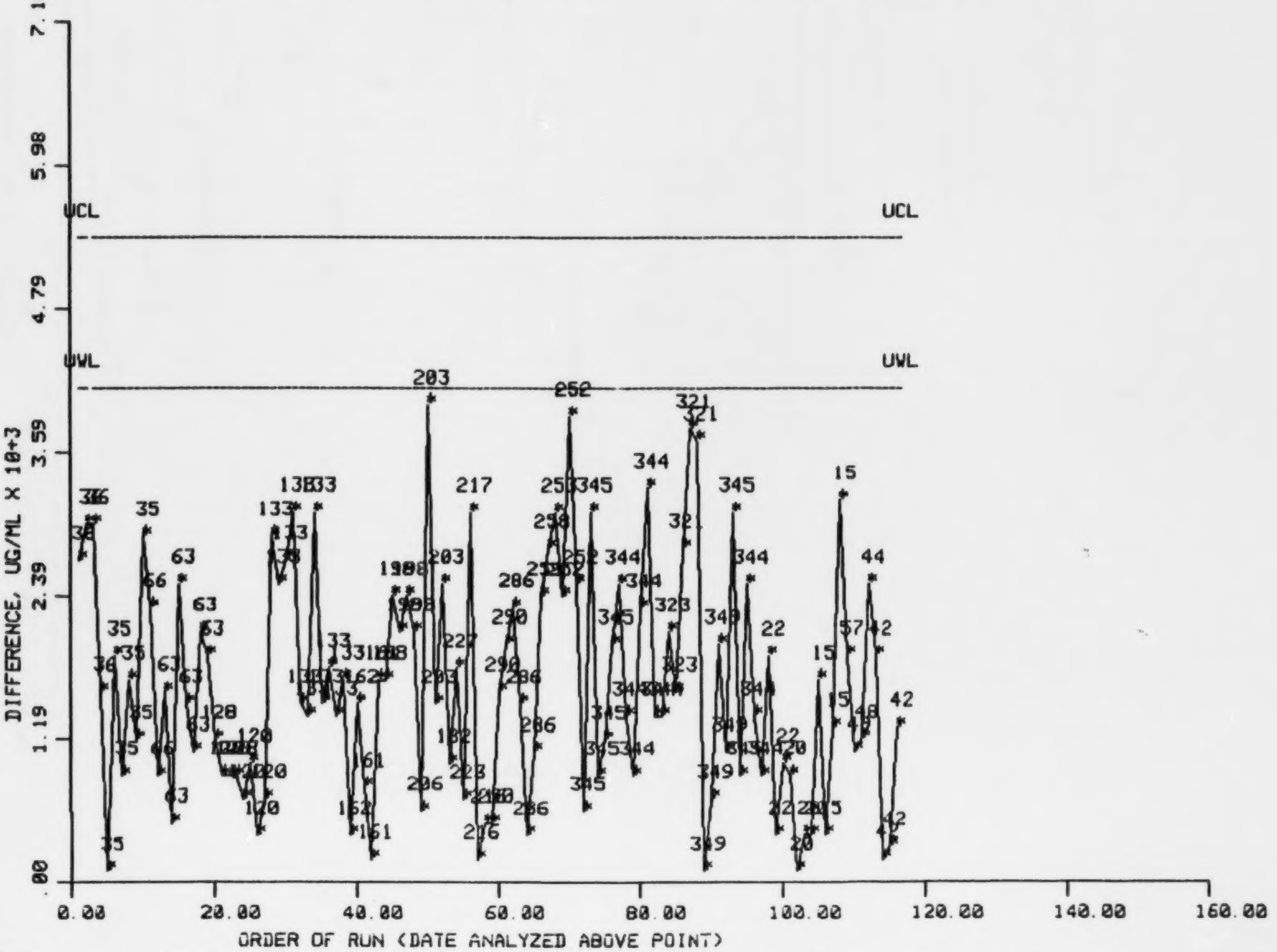


# QC K SPK 0- .0289 UG/ML

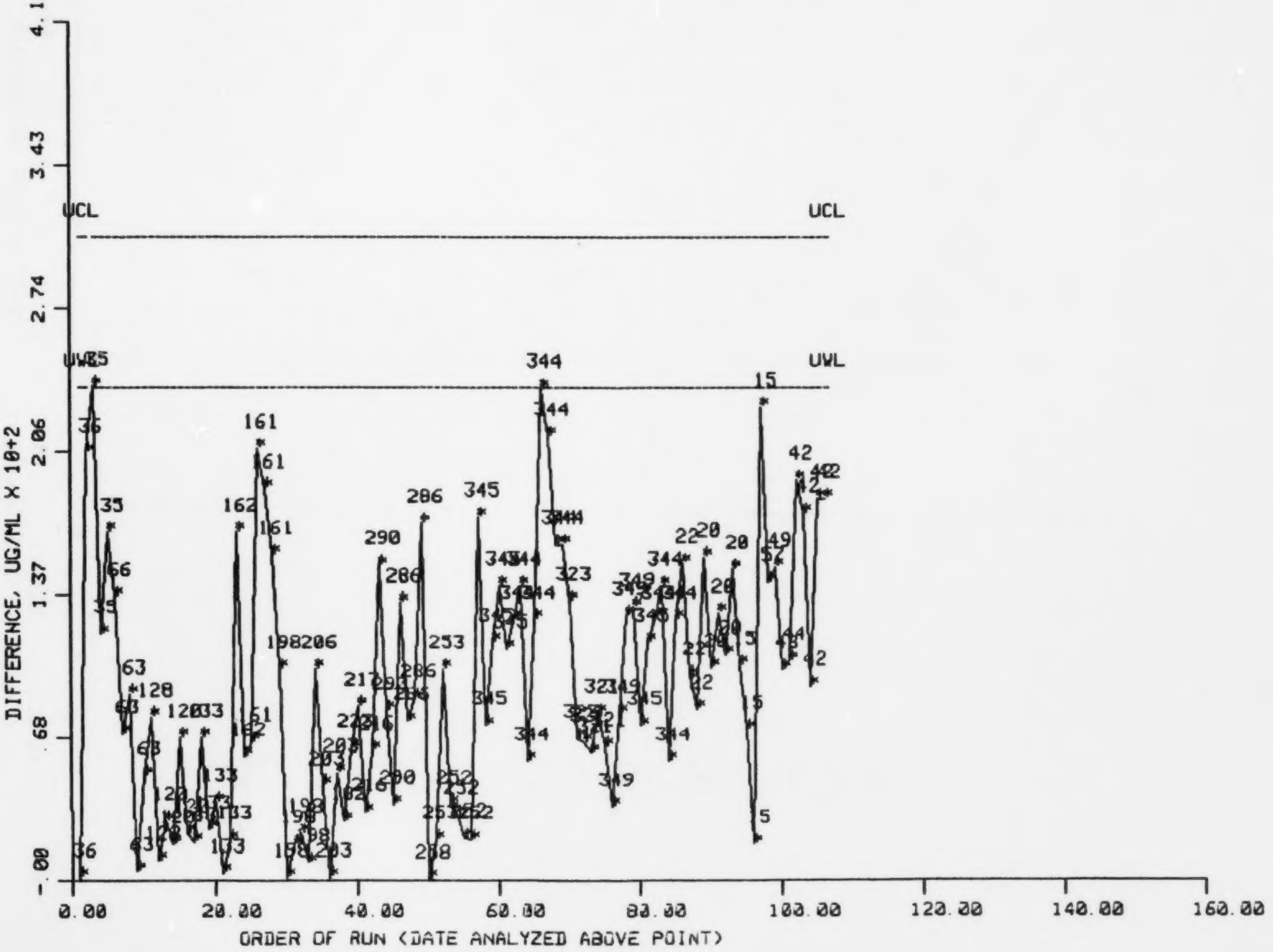


A58

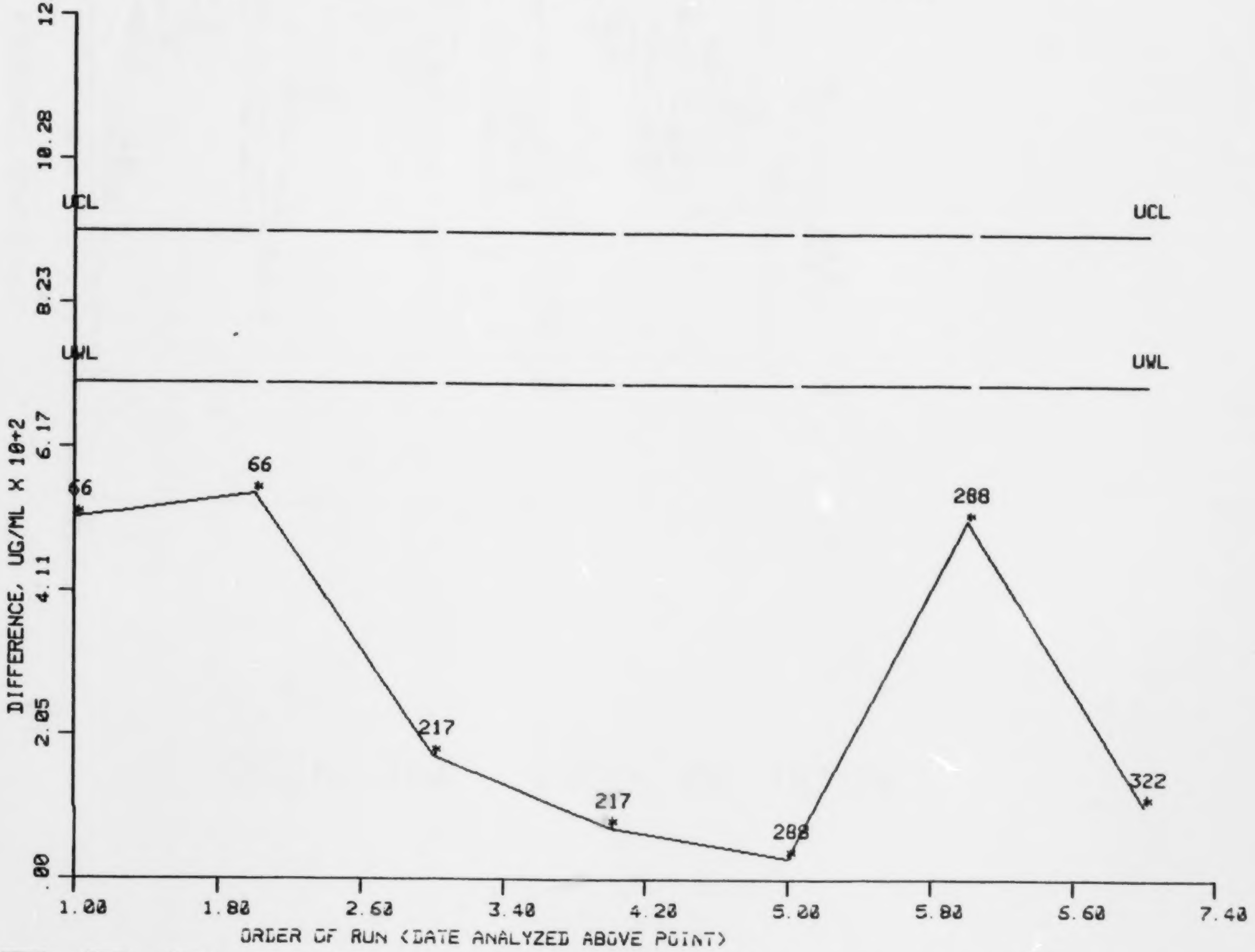
# QC K SPK 0289- 192 UG/ML



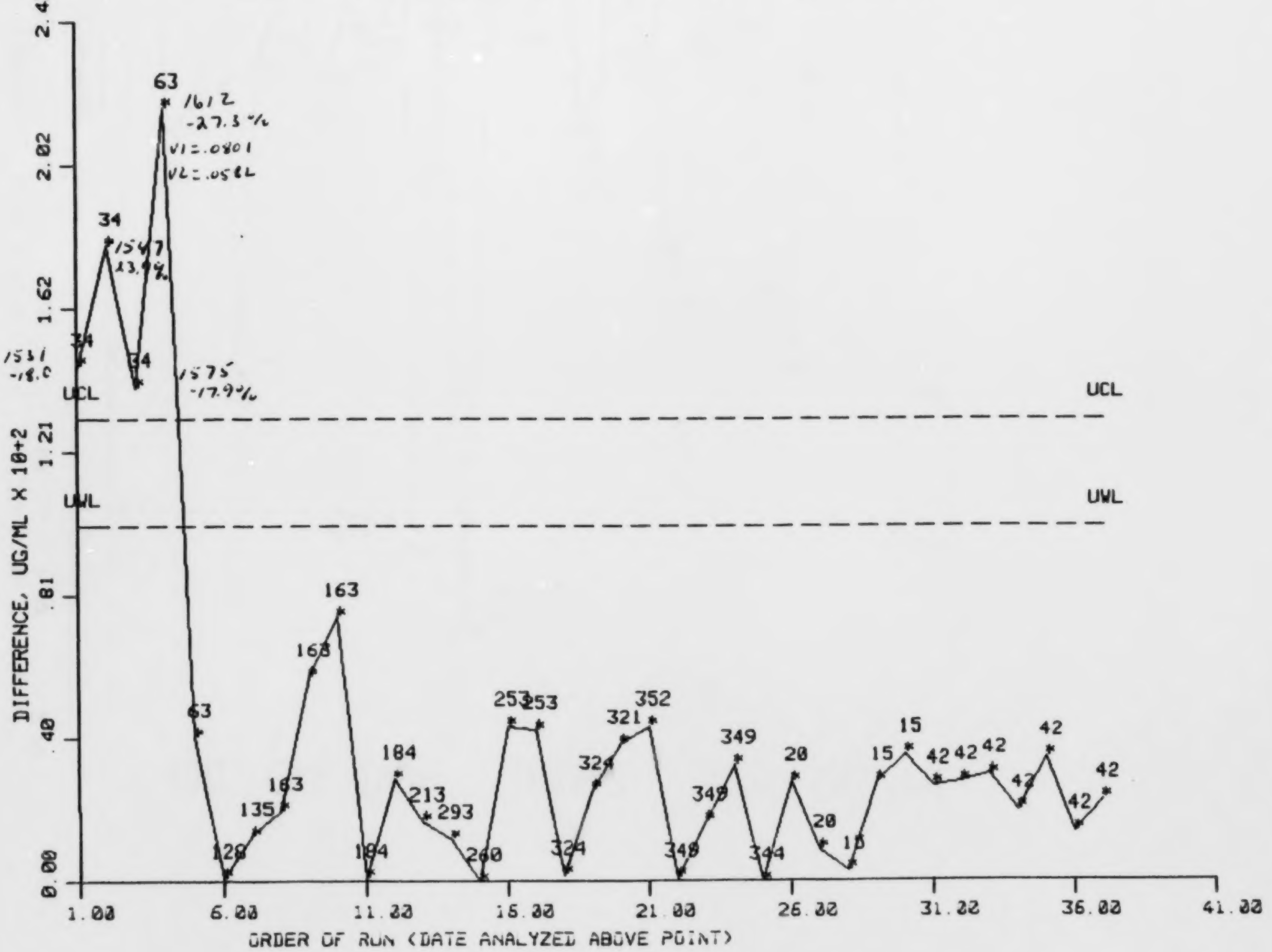
# QC K SPK 192- 96 UG/ML



# QC K SPK 96-> 96 UG/ML

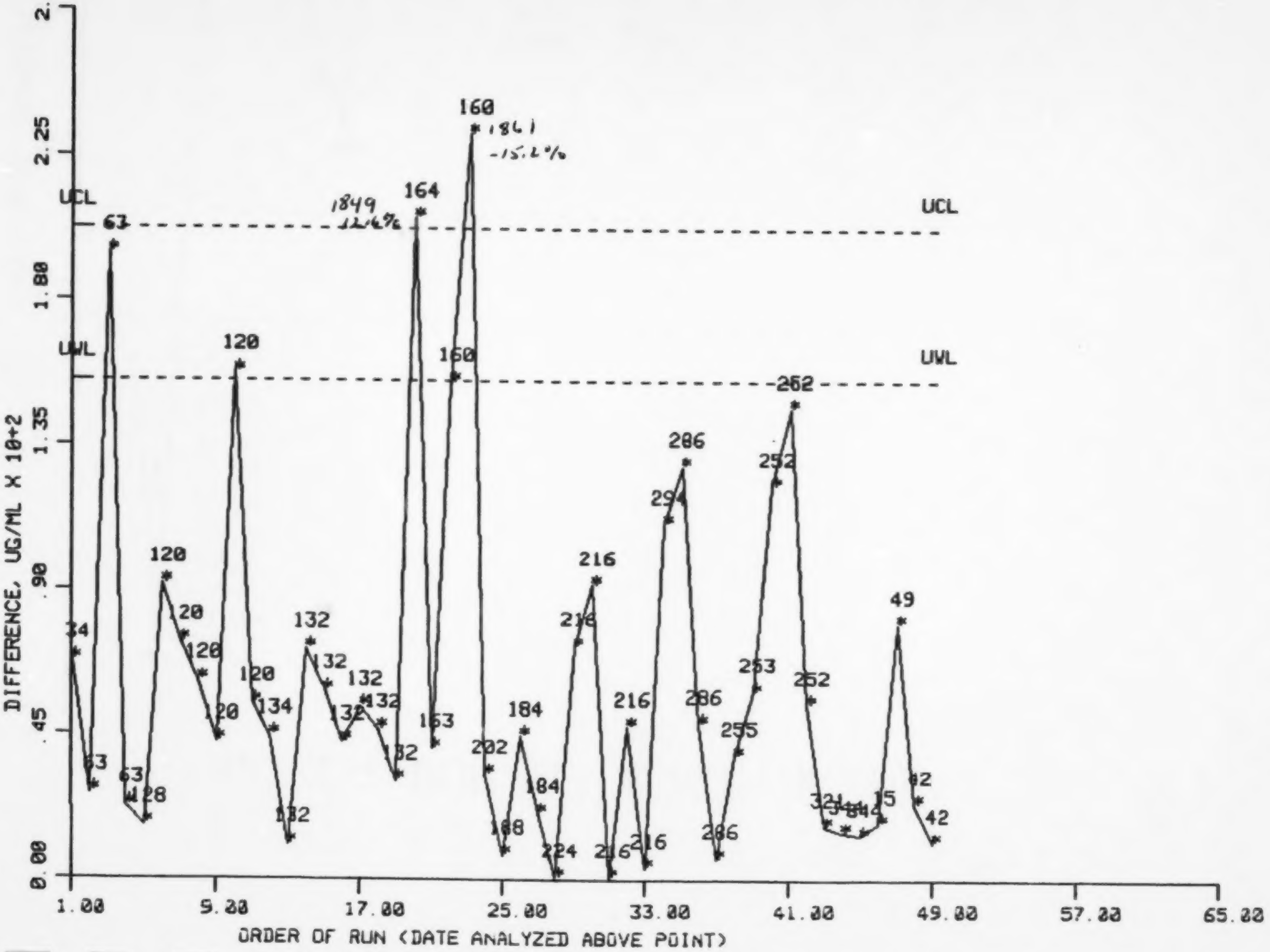


# QC CA DUP 0- .0867 UG/ML

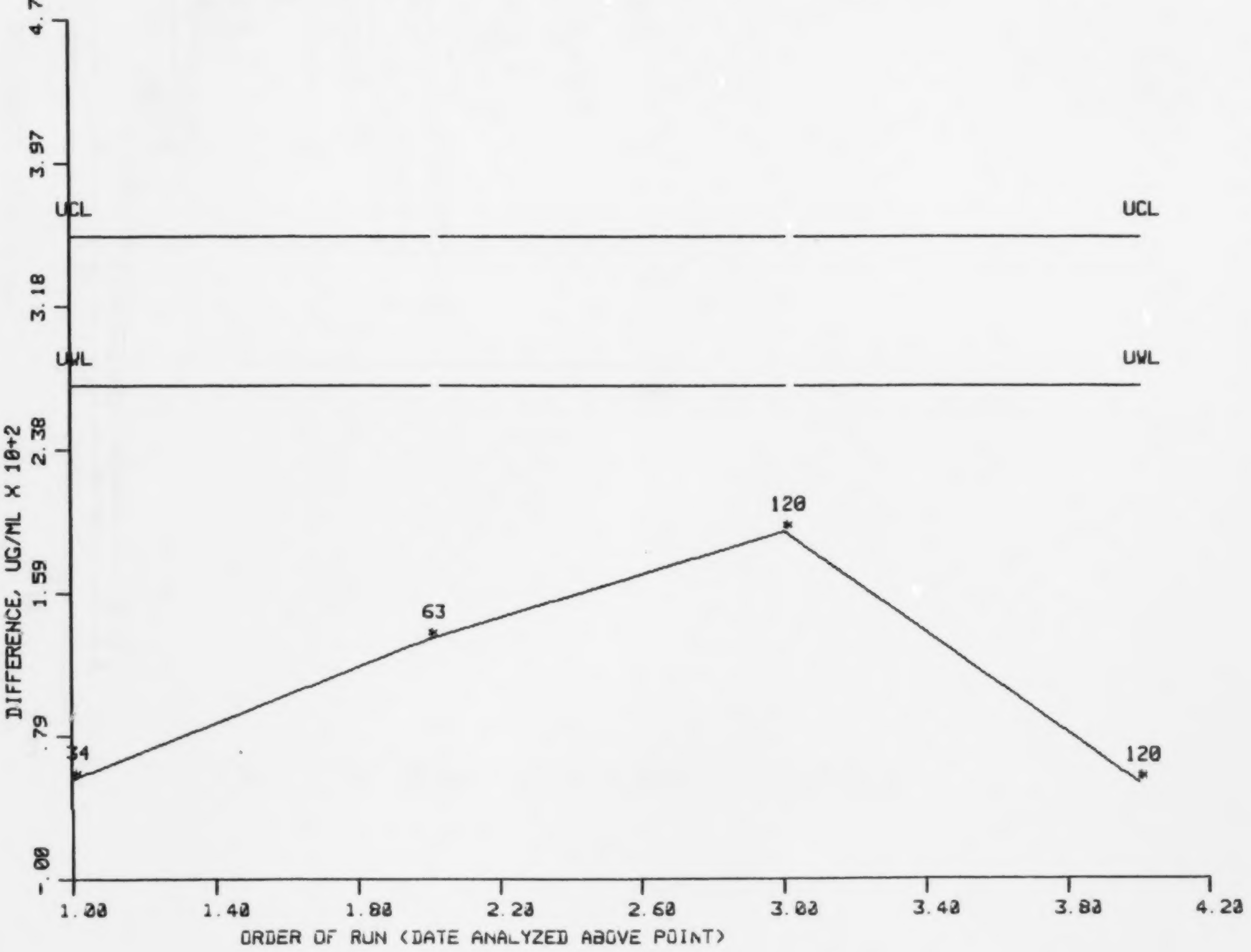


A62

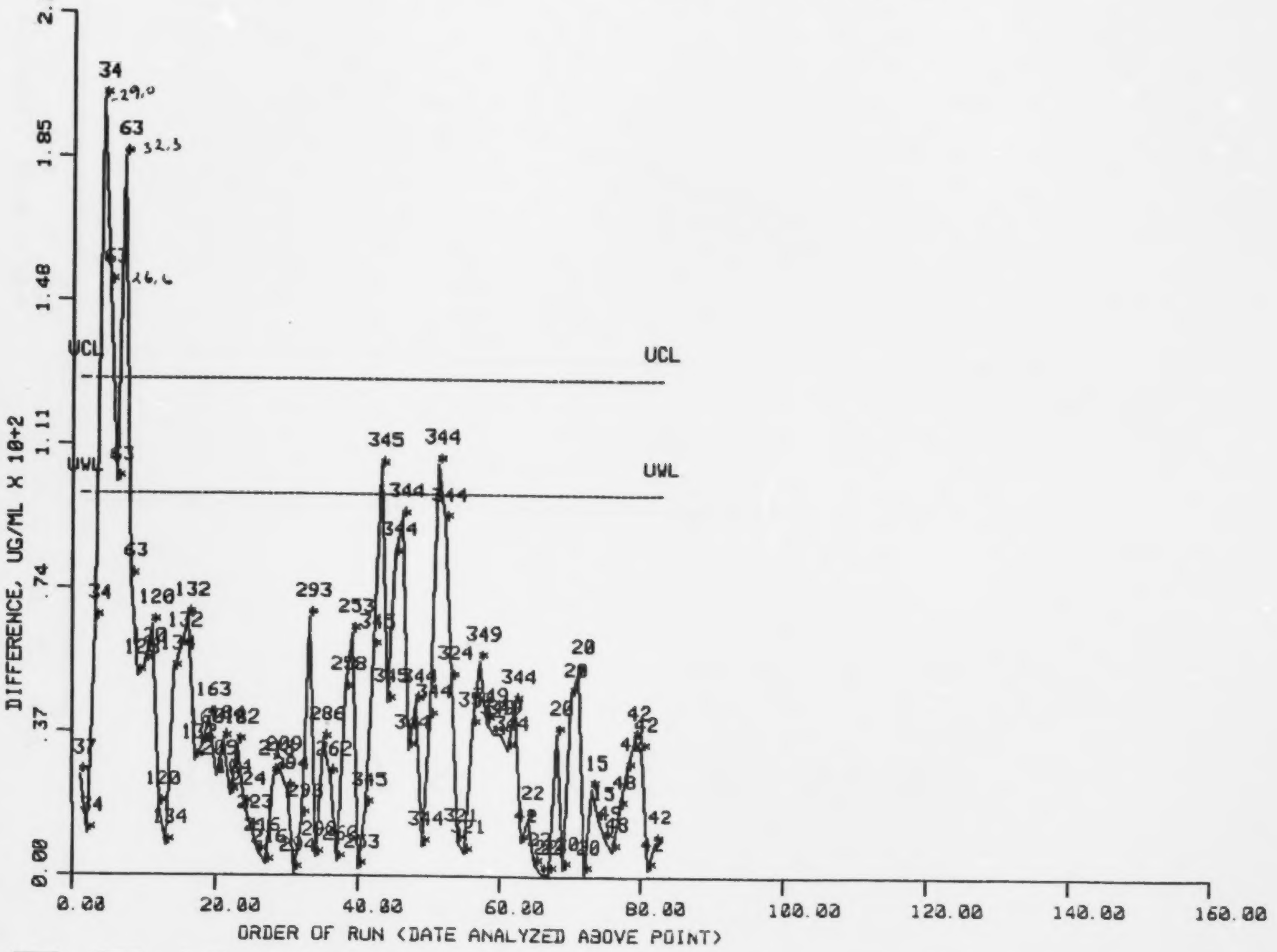
QC CA DUP 0867- 576 UG/ML



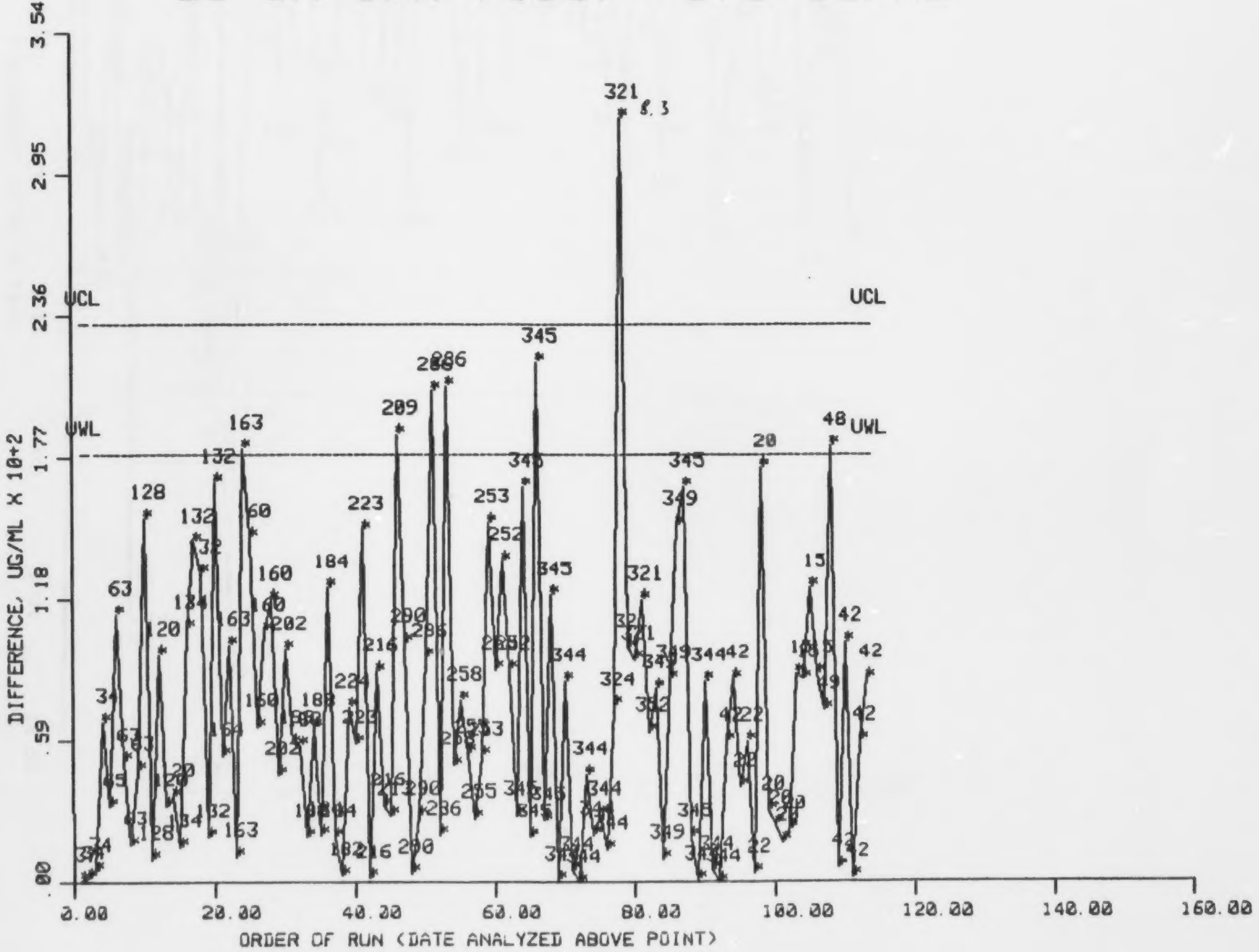
QC CA DUP .576-2.87 UG/ML



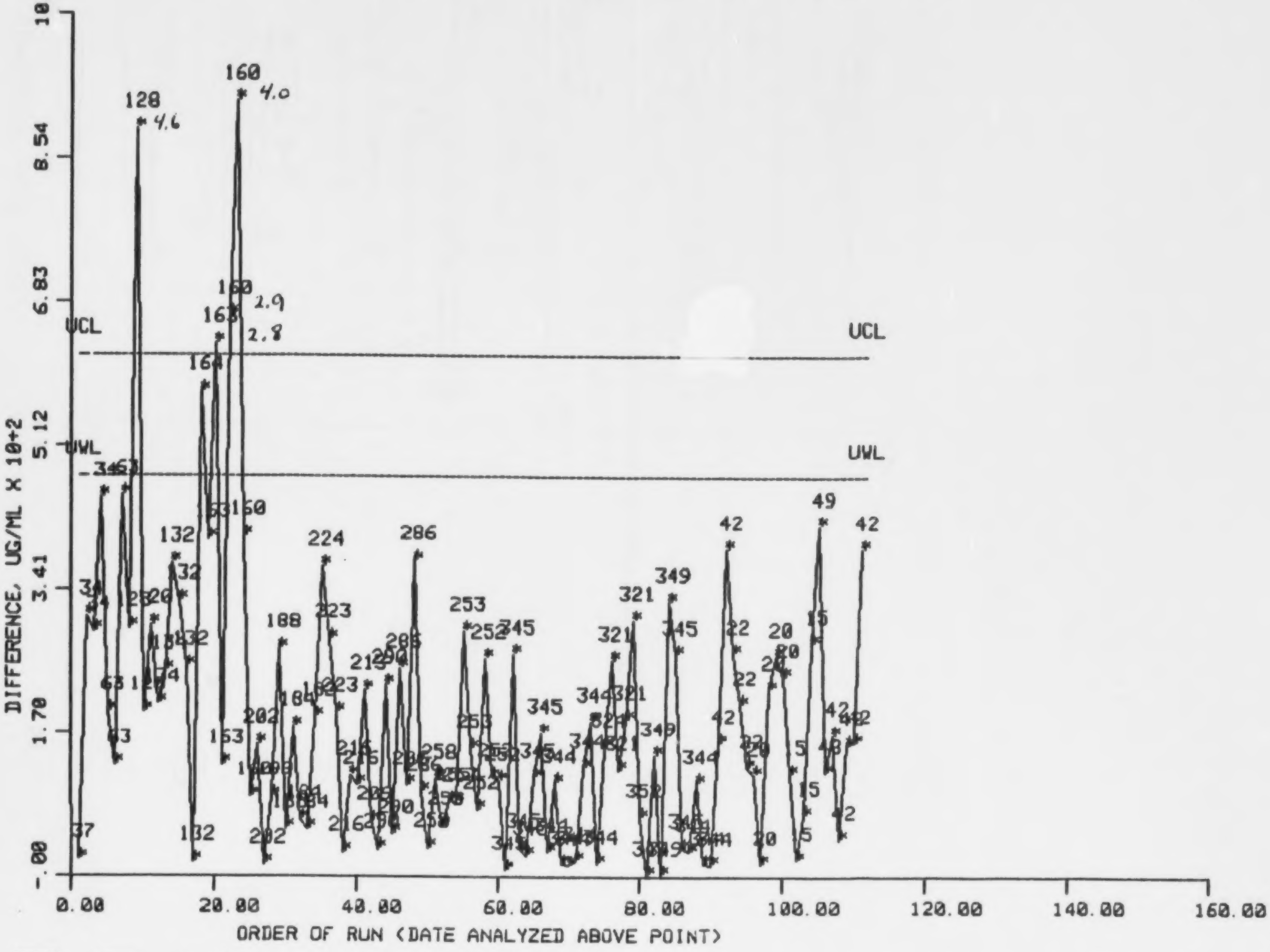
# QC CA SPK 0-.0867 UG/ML



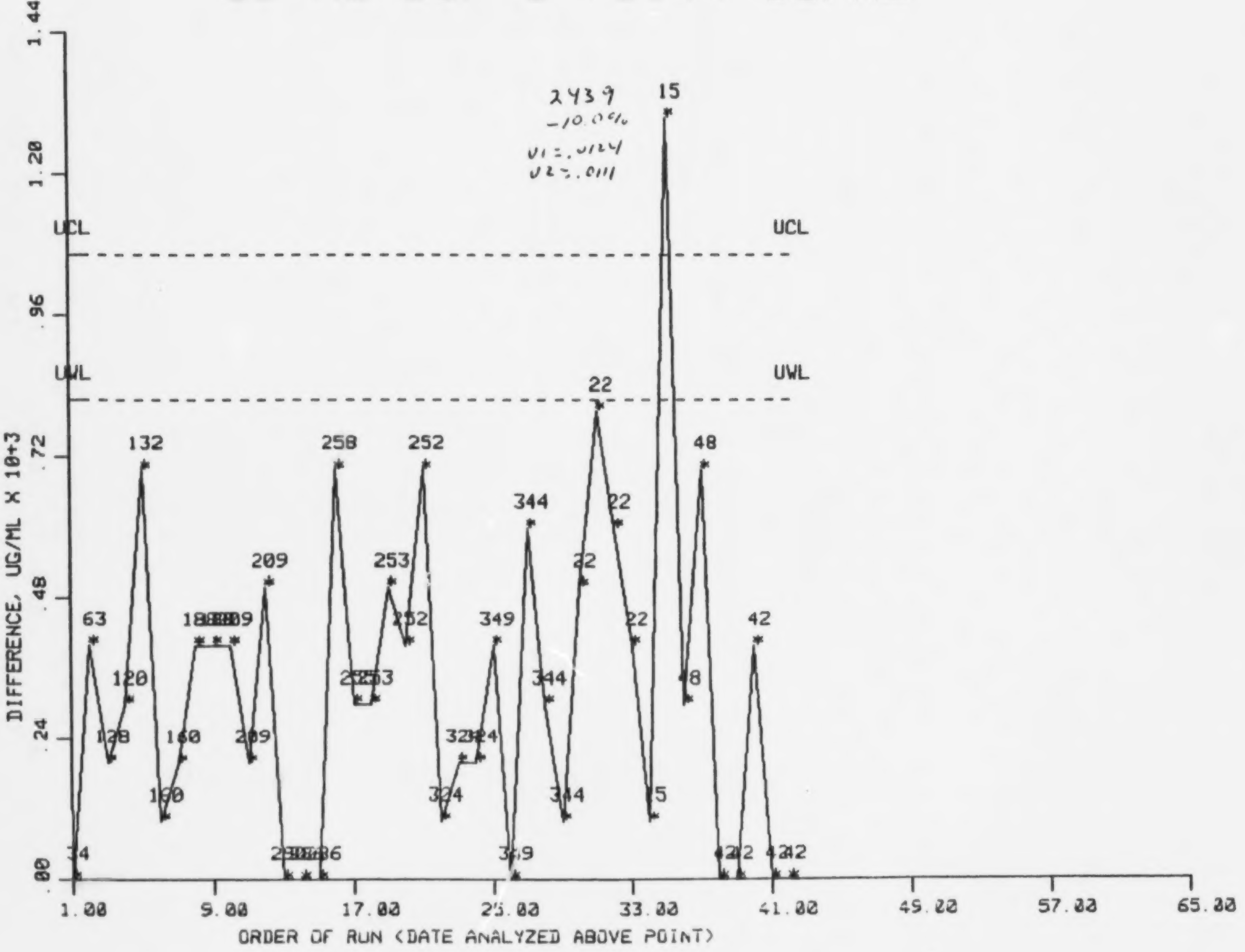
# QC CA SPK .0867- .576 UG/ML



# QC CA SPK .576-2.87 UG/ML

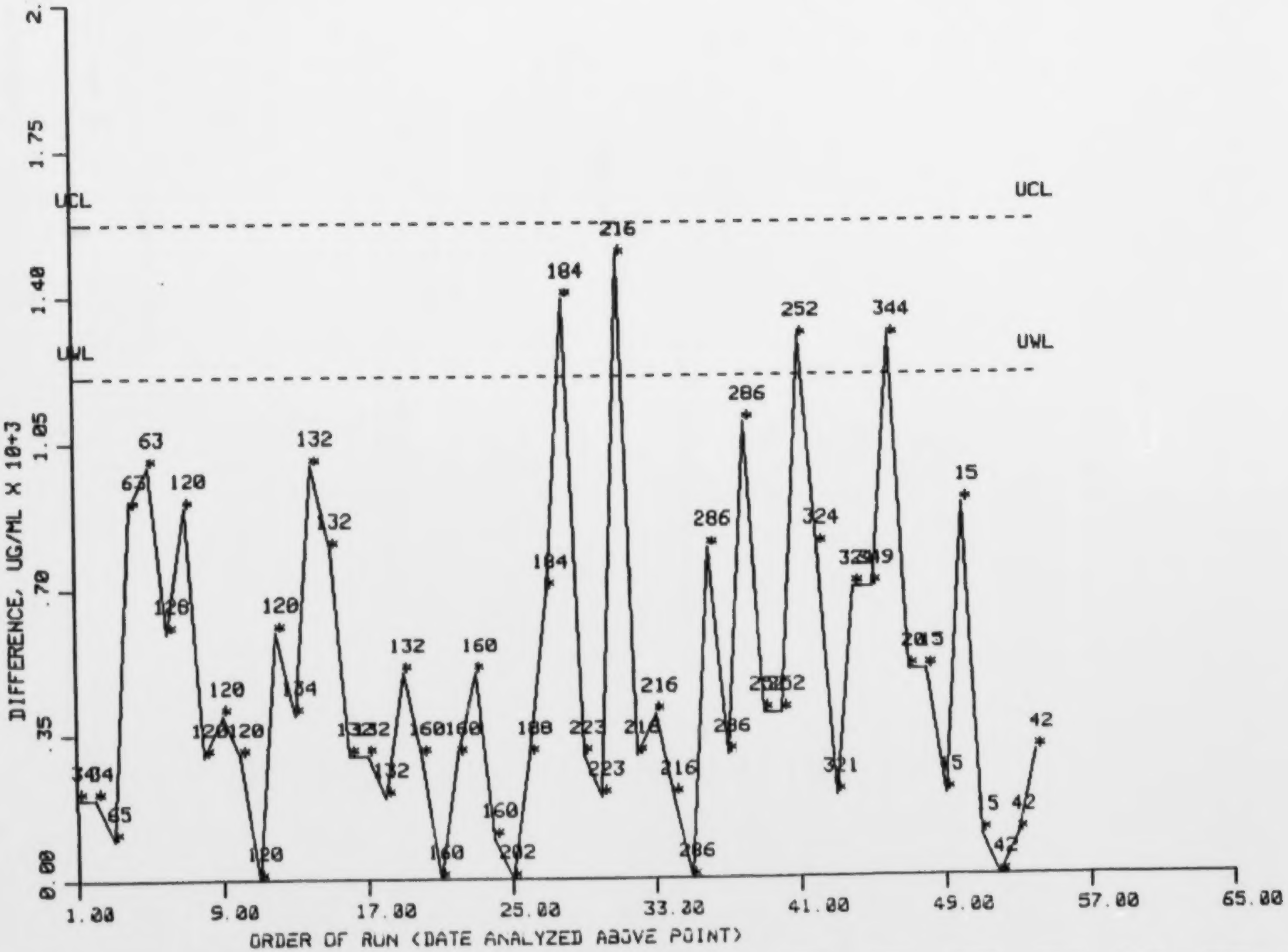


## QC MG DUP 0-.0144 UG/ML

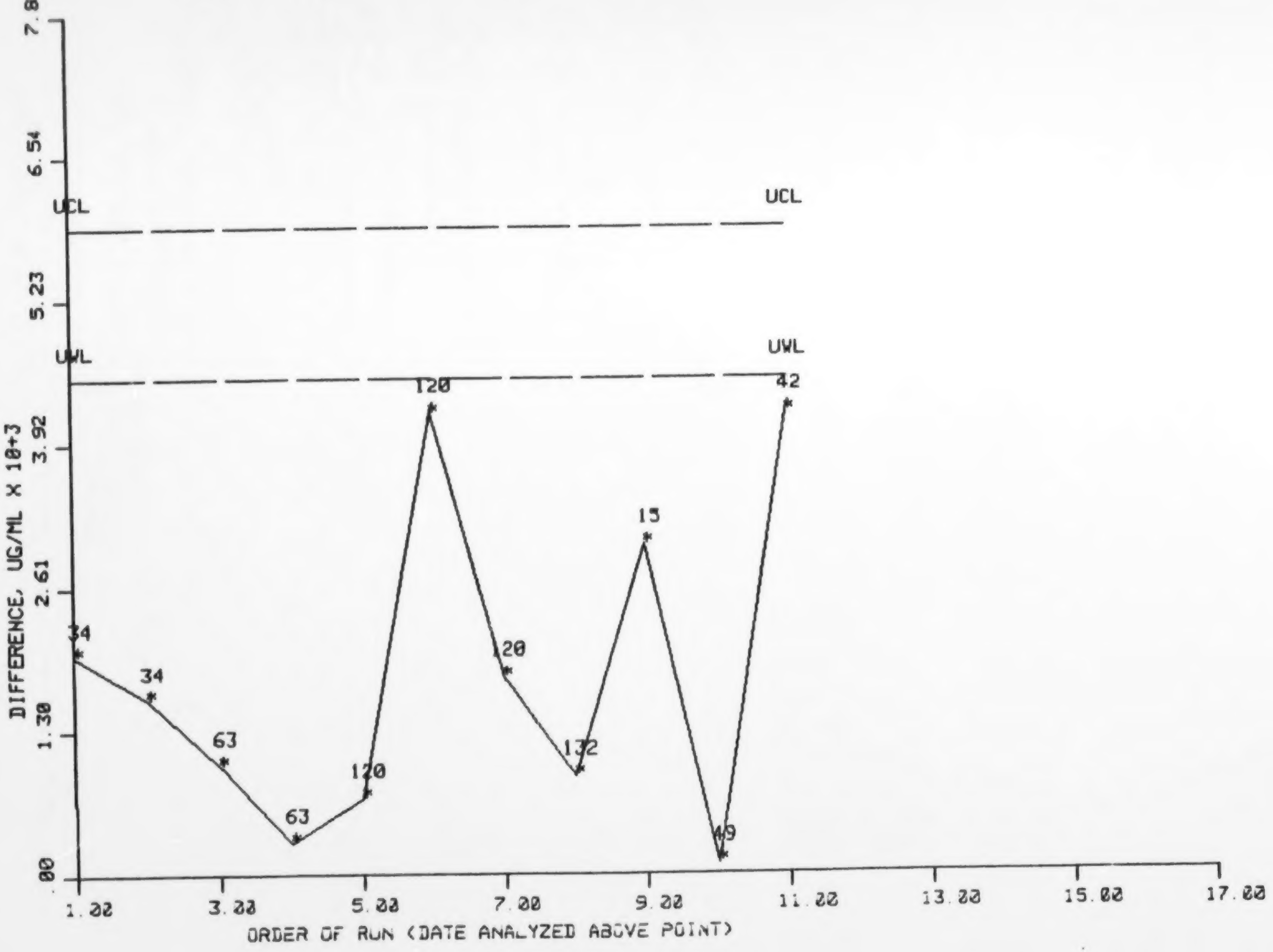


2439
-10.0%
U1=.0124
U2=.0111

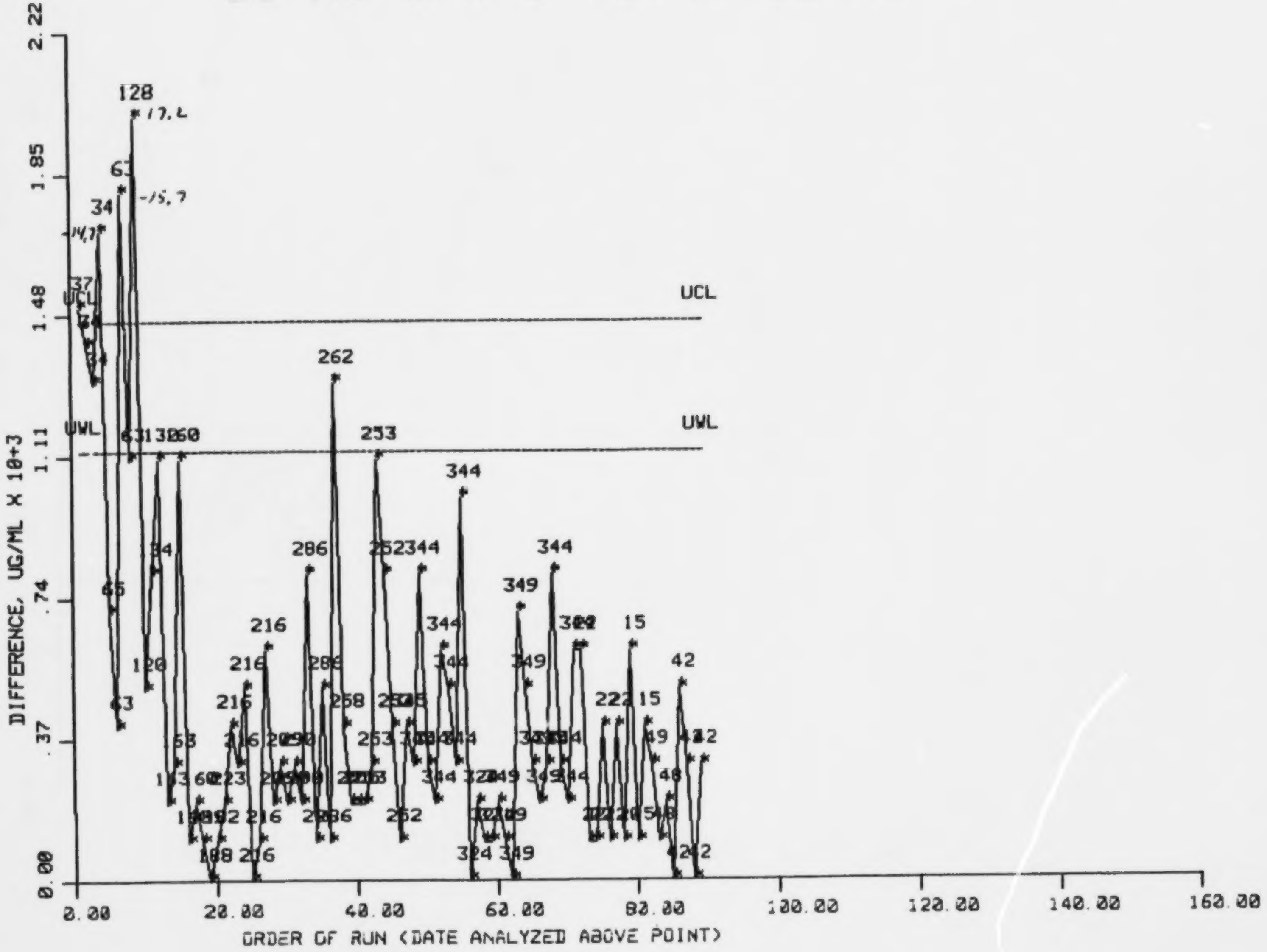
# QC MG DUP 0144-096 UG/ML



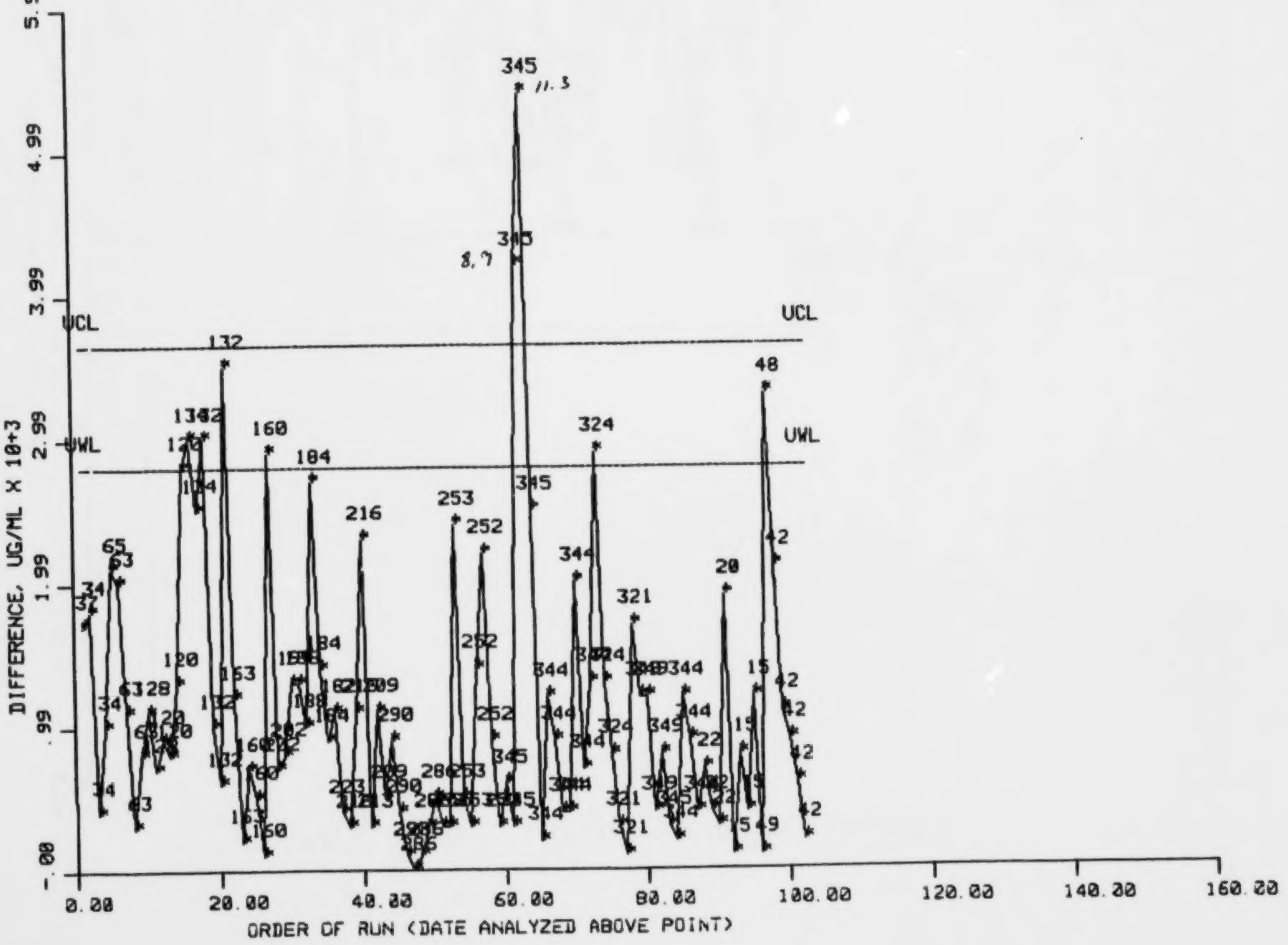
## QC MG DUP 096- 478 UG/ML



# QC MG SPK 0-.0144 UG/ML



## QC MG SPK 0144- 096 UG/ML



# QC MG SPK .096-.478 UG/ML